DRAPER®

section two

automotive tools

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1 BC14

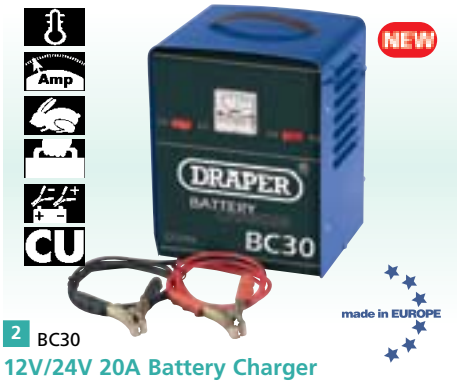
12V/24V 12A Battery Charger

Manufactured to CE Directives
For garage and workshop use. The charger has thermal overload protection, polarity inversion and a carrying handle. Carton packed.

Specification:

Charging output	... 12/24V
Input-single phase	... 230V AC
Charging steps	... 2
Fast charging steps	... 1
Charging current effective	... 12A (12V)
Charging current (average)	... 9A (EN60335)
Nominal capacity	... 12V - 200Ah
Fuse	... 30A x 1
Dimensions	... 200 x 190 x 270mm
Weight	... 4.6kg

Stock No.	Description	Euro each	GBP £ each
40176	Charger	€92.37	£61.58
40607	Spare 30A Fuse	€2.61	£1.74



2 BC30

12V/24V 20A Battery Charger

Manufactured to CE Directives
For garage and workshop use. The charger has thermal overload protection, an easy-to-read ammeter, polarity inversion and a carrying handle. Carton packed.

Specification:

Charging output	... 12/24V
Input-single phase	... 230V AC
Charging steps	... 2
Fast charge steps	... 1
Charging current effective	... 30A (12V)
Charging current (average)	... 20A (EN60335)
Nominal capacity	... 12V - 300Ah
Fuse	... 30A x 1
Dimensions	... 200 x 190 x 270mm
Weight	... 7.5kg

Stock No.	Description	Euro each	GBP £ each
40177	Charger	€156.57	£104.38
40607	Spare 30A Fuse	€2.61	£1.74

3 BC30A

12V/24V Automatic Battery Charger

Manufactured to CE Directives.
For workshop use. Fully automatic for continuous adjustment of unsupervised charging. Features include LED charging status display, ± polarity inversion protection and thermal overload safety protection. Insulated copper leads and battery clips. Suitable for conventional lead acid, lead calcium, maintenance-free and gel filled batteries. Carton packed.

Specification:

Charging output	... 12/24V
Input-single phase	... 230V AC
Charging steps	... 4
Fast charge steps	... 2
Charging current effective	... 30A
Charging current (average)	... 20A (EN60335.)
Fuse	... 30A x 1
Dimensions	... 330 x 215 x 285mm
Weight	... 9.7kg

Stock No.	Description	Euro each	GBP £ each
78667	Charger	€233.31	£155.54
87042	Spare Fuse - 30A	€2.61	£1.74

4 BCS150

12V 135A Battery Starter/Charger

For garage and workshop use. The starter/charger has thermal overload protection, polarity inversion and a carrying handle. Carton packed.

Specification:

Charging output	... 12V
Input-single phase	... 230V AC
Charging current effective	... 18A (RMS)
Charging current average	... 12A (EN60335)
Cranking current effective	... 135A (RMS)
Cranking current average	... 100A (EN60335)
Fuse	... 50A x 1
Dimensions	.. 200 x 190 x 210mm
Weight	... 6kg

Stock No.	Description	Euro each	GBP £ each
40178	Charger	€156.57	£104.38
40576	Spare 50A Fuse	€2.61	£1.74

5 BCS301

12V/24V 230A Battery Starter/Charger

Manufactured to CE Directives.
For garage and workshop use. The starter/charger has thermal overload protection, an easy-to-read ammeter, polarity inversion and a carrying handle. Carton packed.

Specification:

Charging output	... 12/24V
Input-single phase	... 230V AC
Charging current effective	... 32A (RMS)
Charging current average	... 28A (EN60335)
Cranking current effective	... 300A (RMS)
Cranking current average	... 230A (EN60335)
Power input	... 8kW (max.)
Fuse	... 50A x 2
Dimensions	... 345 x 210 x 280mm
Weight	... 12.8kg

Stock No.	Description	Euro each	GBP £ each
62955	Starter/Charger	€278.73	£185.82
54311	Spare Fuse - 50A	€2.61	£1.74

6 BCS230

12V/24V 230A Battery Starter/Charger

For garage and workshop use. The starter/charger has thermal overload protection, an easy-to-read ammeter, polarity inversion and a carrying handle. Carton packed.

Specification:

Charging output	... 12/24V
Input-single phase	... 230V AC
Charging current effective	... 20A (RMS)
Charging current average	... 13A (EN60335)
Cranking current effective	... 230A (RMS)
Cranking current average	... 150A (EN60335)
Power input	... 0.5/3.0kW
Fuse	... 80A x 1
Dimensions	... 200 x 190 x 270mm
Weight	... 10kg

Stock No.	Description	Euro each	GBP £ each
40179	Starter/Charger	€198.12	£132.08
40622	Spare 80A Fuse	€2.61	£1.74

norman says

VOLTAGE SURGE PROTECTION
A Voltage Surge Protector connected to a vehicle's battery will prevent current spikes which can be caused by jump starting. See Item No. 3 page 64 to order.

SYMBOLS

Thermal Overload Protection · Copper Windings · Polarity Inversion Protected · Carrying Handle · Ammeter · Fast Charge · Wheel Kit · Remote Starter · Battery Timer

1 BCS350T

12V/24V 300A Battery Starter/Charger with Trolley

Manufactured to CE Directives.
For garage and workshop use. With trolley wheels for easy movement around the workshop or yard. The starter/charger has thermal overload protection, an easy-to-read ammeter, polarity inversion and transport handle. Carton packed.

Specification:

Charging output	... 12/24V
Input-single phase	... 230V AC
Charging current effective	... 35A (RMS)
Charging current (average)	... 20A (EN60335)
Cranking current effective	... 300A (RMS)
Cranking current (average)	... 220A (EN60335)
Power input	... 1-5kW
Fuse	... 1 x 50A
Dimensions	... 400 x 300 x 640mm
Weight	... 19kg

Stock No.	Description	Euro each	GBP £ each
40180	Starter/Charger	€295.98	£197.32
40576	Spare 50A Fuse	€2.61	£1.74

2 BCS600T

12V/24V 400A Battery Starter/Charger with Trolley

Manufactured to CE Directives.
For garage and workshop use. With trolley wheels for easy movement around the workshop or yard. The starter/charger has thermal overload protection, an easy-to-read ammeter, battery timer, polarity inversion and transport handle. Carton packed.

Specification:

Charging output	... 12/24V
Input-single phase	... 230V AC
Charging current effective	... 75A (RMS)
Charging current (average)	... 50A (EN60335)
Cranking current effective	... 500A (RMS)
Cranking current (average)	... 330A (EN60335)
Power input	... 1.7-7.5kW (max.)
Fuse	... 1 x 100A
Dimensions	... 450 x 320 x 700mm
Weight	... 26kg

Stock No.	Description	Euro each	GBP £ each
40181	Starter/Charger	€499.56	£333.04
40592	Spare 100A Fuse	€5.13	£3.42

select the correct charger

Min. Ah Rating	Max. Ah Rating	Stock No.
10	45	72848
10	45	66802
15	55	66799
20	55	66800
20	60	66806
30	120	66798
30	135	66801
20	200	40176
20	300	40177
30	200	78667
30	200	40178
60	230	62955
20	300	40179
30	400	40180
35	600	40181

product locator

See page 66 for a range of portable power packs.

safety information

Lead acid batteries contain diluted sulphuric acid as the electrolyte - ALWAYS wear eye protection and protective clothing when moving, charging or servicing. While charging, batteries give off hydrogen and oxygen - a very explosive mixture - so DO NOT expose them to electric sparks, naked flames and definitely NO SMOKING!

3

Voltage Surge Protectors

12 or 24V DC versions; increases voltage surge protection for vehicle electronics during welding, jump starts, plasma cutting, battery connection/disconnection and other repair applications. Connects across vehicle's battery. Display packed.

Stock No.	Part No.	For Voltage	Euro each	GBP £ each
39107	VSP12	12V DC	€17.01	£11.34
66156	VSP24	24V DC	€20.07	£13.38

Prices are list, each and exclude VAT.

1 BC4

12V 4.3A Battery Charger & Tester

Manufactured to CE Directives.
For workshop and home use. 4.5A charge setting. Features include LED battery condition tester, LED charging status display, ± polarity inversion protection and thermal overload safety protection. Insulated copper leads and battery clips. Suitable for conventional lead acid batteries ONLY. Display carton.

Specification:

Charging output	... 12V
Input-single phase	... 230V AC
Charging steps	... 1
Av. charging current EN60335	... 3A
Effective charging current (12V)	... 4.5A
Dimensions	... 140 x 130 x 72mm
Weight	... 1.5kg

Stock No.	Euro each	GBP £ each
72848	€37.17	£24.78

3 BC6

12V 6A Battery Charger & Tester

Manufactured to CE Directives.
For workshop and home use. Fast 6A charge setting. Features include LED battery condition tester, LED charging status display, ± polarity inversion protection and thermal overload safety protection. Insulated copper leads and battery clips. Suitable for conventional lead acid batteries ONLY. Display carton.

Specification:

Charging output	... 12V
Input-single phase	... 230V AC
Charging steps	... 2
Av. charging current EN60335	... 4A (fast charge)
Effective charging current (12V)	... 6A (fast charge)
Dimensions	... 140 x 130 x 72mm
Weight	... 1.5kg

Stock No.	Euro each	GBP £ each
66799	€45.84	£30.56

5 BC12

12V 12A Battery Charger & Tester

Manufactured to CE Directives.
For workshop and home use. Fast 12A charge setting. Features include LED battery condition tester, LED charging status display, ± polarity inversion protection and thermal overload safety protection. Insulated copper leads and battery clips. Suitable for conventional lead acid batteries ONLY. Display carton.

Specification:

Charging output	... 12V
Input-single phase	... 230V AC
Charging steps	... 2
Av. charging current EN60335	... 8A (fast charge)
Effective charging current (12V)	... 12A (fast charge)
Dimensions	... 200 x 135 x 85mm
Weight	... 2.5kg

Stock No.	Euro each	GBP £ each
66798	€62.61	£41.74

2 BC5

6V/12V 4.5A Battery Charger & Tester

Manufactured to CE Directives.
For workshop and home use. 6V and 12V battery voltage setting. Features include LED battery condition tester, LED charging status display, ± polarity inversion protection and thermal overload safety protection. Insulated copper leads and battery clips. Suitable for conventional lead acid batteries ONLY. Display carton.

Specification:

Charging output	... 6/12V
Input-single phase	... 230V AC
Charging steps	... 1
Av. charging current EN60335	... 3A
Effective charging current (12V)	... 4.5A
Dimensions	... 140 x 130 x 72mm
Weight	... 1.5kg

Stock No.	Euro each	GBP £ each
66802	€38.13	£25.42

4 BC8A

12V 8A Automatic Battery Charger & Tester

Manufactured to CE Directives.
For workshop and home use. Automatically reverts to safe trickle mode when battery fully charged thus maintaining a fully-charged battery. Intermittent 8A charge setting. Features include LED battery condition tester, LED charging status display, ± polarity inversion protection and thermal overload safety protection. Insulated copper leads and battery clips. Suitable for conventional and maintenance-free lead acid batteries ONLY. Display carton.

Specification:

Charging output	... 12V
Input-single phase	... 230V AC
Charging steps	... 1
Av. charging current EN60335	... 5.5A (intermittent)
Effective charging current (12V)	... 8A (intermittent)
Dimensions	... 184 x 112 x 86mm
Weight	... 2.1kg

Stock No.	Euro each	GBP £ each
66800	€56.07	£37.38

6 BCS60

12V 60A Battery Charger/Starter & Tester

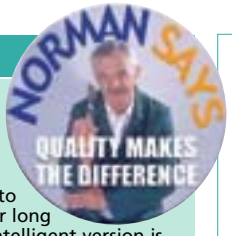
Manufactured to CE Directives.
For workshop and home use. Heavy duty 60A engine start facility. Fast 26A charge setting. Features include LED battery condition tester, LED charging status display, ± polarity inversion protection and thermal overload safety protection. Insulated copper leads and battery clips. Suitable for conventional lead acid batteries ONLY. Display carton.

Specification:

Charging output	... 12V
Input-single phase	... 230V AC
Charging steps	... 3 (normal, fast & start)
Av. charging current EN60335	... 17A (fast charge)
Effective charging current (12V)	... 26A (fast)
Start charging current	... 60A
Dimensions	... 250 x 150 x 135mm
Weight	... 4.5kg

Stock No.	Euro each	GBP £ each
66801	€107.58	£71.72

norman says



Most of our Workshop/ DIY chargers show the condition of your battery, both when first connected and during charge. The fully automatic model will revert to a trickle charge so is ideal for long term conditioning and the intelligent version is also suitable for all battery types including gel.

LEAD ACID BATTERY CHARACTERISTICS
If stored unused, they will self discharge 1-5% in a day - so in two months you could lose 25% of its power or in 3 months over 45% of its power is lost! This is without any form of current drain (electronic clocks, stereos, car alarms etc.) The colder the temperature the less power the battery can deliver. Battery life is considerably reduced with heat - either in use or during charging.

SUITABLE FOR CONVENTIONAL LEAD ACID, MAINTENANCE FREE AND GEL FILLED BATTERIES

7 BCI

12V Intelligent Battery Charger

Manufactured to CE Directives.
For workshop and home use. Fully automatic with temperature sensor compensation and continuous adjustment of unsupervised charging. Maintains battery in a 100% fully charged state. 6A charge setting. Features include LED charging status display, ± polarity inversion protection audible polarity protection and thermal overload safety protection. Insulated copper leads and battery clips. Suitable for conventional lead acid, maintenance-free and gel filled batteries. Display carton.

Specification:

Charging output	... 12V
Input-single phase	... 230V AC
Av. charging current EN60335	... 4A
Effective charging current (12V)	... 6A
Dimensions	... 184 x 112 x 86mm
Weight	... 2.1kg

Stock No.	Euro each	GBP £ each
66806	€75.51	£50.34

1 PP12VB/HD

12V 900A Heavy Duty Portable Power Pack

Versatile power pack ideal for petrol vehicles up to 3000cc and diesel vehicles up to 2400cc. On/off power switch, voltmeter with battery charge and reverse polarity indicators. Heavy duty booster cables with insulated jaws. DC power socket allows the running of 12V/DC accessories to a maximum current of 15A. Rechargeable through a 230V AC supply or a 12V vehicle cigarette lighter socket. Display carton.

Specification:

Starting current	... 400A
Peak current	... 900A
Max. engine starting size	... 3000cc (petrol)
	... 2400cc (diesel)
Battery	... 17Ah (sealed lead)

Stock No.	Euro each	GBP £ each
40133	€156.57	£104.38

2 PP12VLD

12V 600A Light Duty Portable Power Pack with Integral Light

Compact power pack ideal for petrol vehicles up to 1600cc and diesel vehicles up to 1500cc. On/off power switch with battery charge and reverse polarity indicators. Heavy duty booster cables with insulated jaws. Rechargeable through a 230V AC supply or a 12V vehicle cigarette lighter socket. Display carton.

Specification:

Starting current	... 300A
Peak current	... 600A
Max. engine starting size	... 1600cc (petrol)
	... 1500cc (diesel)
Battery	... 7Ah (sealed lead)
Light	... 3.6W

Stock No.	Euro each	GBP £ each
40135	€101.76	£67.84

3 PP12VC/B

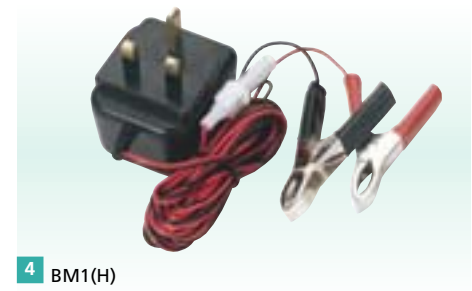
12V 700A Portable Power Pack with Air Compressor and Integral Light

Power pack ideal for petrol vehicles up to 2000cc and diesel vehicles up to 1800cc. On/off power switch, voltmeter with battery charge and reverse polarity indicators. Heavy duty booster cables with insulated jaws. DC power socket allows the running of 12V/DC accessories to a maximum current of 15A. Integral air compressor with pressure gauge, hose and popular adaptors. Rechargeable through a 230V AC supply or a 12V vehicle cigarette lighter socket. Display carton.

Specification:

Starting current	... 300A
Peak current	... 700A
Max. engine starting size	... 2000cc (petrol)
	... 1800cc (diesel)
Battery	... 12Ah (sealed lead)
Light	... 3.6W
Compressor (max output)	... 17.5 bar (260psi)

Stock No.	Euro each	GBP £ each
40134	€164.43	£109.62



4 BM1(H)

12V Battery Master

Designed to be left connected to automotive-type batteries for extended periods of time. It will maintain the battery in a charged ready-to-go state, ensuring, for example, that a vehicle's alarm current does not drain the battery. Fitted with crocodile clips, in-line fuse and 4M of cable. Display packed.

Specification:

Input	... 230V AC - 50Hz
Output	... 12V DC 300mA
Cable length	... 4M
Battery suitability	... 30 -140Ah

Stock No.	Euro each	GBP £ each
63147	€34.74	£23.16

5 BLT100

100A Battery Load Tester

Suitable for testing 6 and 12V lead acid batteries, charging and starting circuits found on most motorcycles, cars, light commercial vehicles, tractors, boats etc. Tests: state of charge, cranking ability, charging system output and starter motor. Tests up to 100A. Display carton.

Stock No.	Euro each	GBP £ each
53090	€88.29	£58.86

6 1182

3-12V Automotive Multi-Tester

Suitable for checking continuity/broken wires, finding live wires, other DC voltage testing from 3-12V, vehicle battery testing, spark plug ignition voltage test. Suitable for 3-12V DC systems. Display packed.

Warning: For testing DC circuits on cars within the voltage range only. Not suitable for testing mains supply AC circuits.

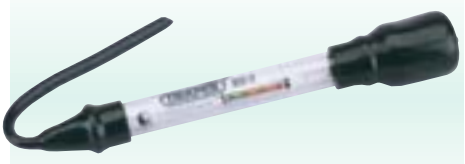
Stock No.	Euro each	GBP £ each
57680	€12.81	£8.54

7 CMS1

Computer Memory Saver

Maintains an uninterrupted power supply to security coded car radios on board clocks etc. when disconnecting vehicle battery. The saver plugs into a conventional car cigarette lighter and can be powered either by a fully charged 12V car battery or a 9V battery (PP3 type - sold separately). Supplied complete with 2M of cable and crocodile clips. Display packed.

Stock No.	Part No.	Description	Euro each	GBP £ each
38330	CMS1	Memory Saver	€16.05	£10.70
61837	D6LR61/HD	Battery (PP3)	€5.82	£3.88



8 BH-2

Battery Hydrometer

For testing density of battery electrolyte. With glass tube, PVC bulb and spout. Sold in plastic display tube.

Stock No.	Range	Euro each	GBP £ each
61792	1.15 - 1.30g/ml	€6.57	£4.38

Prices are list, each and exclude VAT.

1 BR4/KIT

4 Tonne Hydraulic Body Repair Kit

For use in the garage or bodyshop.

Contents:
- (A) 5 x Extension Bars 495, 420, 215, 100 and 85mm
- (B) Serrated Cap
- (C) Hydraulic Spreading Wedge
- (D) Rubber Head 60mm diameter
- (E) Flat Serrated Base
- (F) Ram Toe
- (G) Plunger Toe
- (H) Cleft Head
- (J) "V" Base
- (K) Double End Male Snap Connector
- (L) 4 Tonne Pump Unit and Hose
- (M) Hydraulic Push Ram - length 330mm

Packed in sturdy steel case with styrofoam insert.

Stock No.	Weight	Euro per kit	GBP £ per kit
37874	22.5kg	€256.83	£171.22

2 BR10/KIT

10 Tonne Hydraulic Body Repair Kit

For use in the garage or bodyshop.

Contents:
- (A) 4 x Extension Bars 685, 455, 250, and 100mm
- (B) Serrated Cap
- (C) Hydraulic Spreading Wedge
- (D) Rubber Head 80mm diameter
- (E) Flat Serrated Base
- (F) Ram Toe
- (G) Plunger Toe
- (H) Cleft Head
- (J) "V" Base
- (K) Double End Male Snap Connector
- (L) 10 Tonne Pump Unit and Hose
- (M) Hydraulic Push Ram - length 470mm

Packed in sturdy steel case with styrofoam insert.

Stock No.	Weight	Euro per kit	GBP £ per kit
37875	38kg	€361.20	£240.80

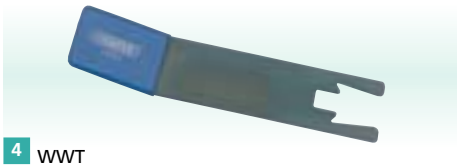
3 SH/KIT

Slide Hammer Kit

Packed in blow mould storage carrying case with display sleeve.

Contents:
- 2.3kg slide hammer with 470mm shaft • large flat hook • small flat hook • large round hook • small round hook • screwholder • self-tapping screw • tapered screw • adaptor

Stock No.	Euro per kit	GBP £ per kit
52321	€46.98	£31.32

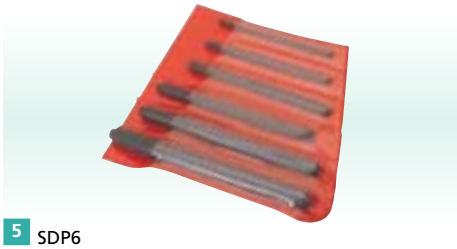


4 WWT

Window Winder Clip Removal Tool

For the removal and installation of the spring clips used on window winder handles fitted on GM (Vauxhall/Opel) models. Can also be used on other vehicles with similar configurations. Manufactured from spring steel and chemically blacked with PVC dipped handle. Display packed.

Stock No.	Euro each	GBP £ each
52580	€5.16	£3.44



5 SDP6

6 piece Dowel Pin Punch Set

Designed for the safe removal of spring dowel or roll pins. These specialist punches are manufactured from chrome vanadium steel, hardened and tempered to 45HRC and chemically blacked. The punch has a shaped end for positive location and an undersized body to prevent jamming. The punches are suitable for metric or imperial pins. Packed in plastic wallet and display packed.

Contents: 3.0 (1/8), 4.0 (5/32), 5.0 (3/16), 6.5 (3/16), 8.0 (1/4) and 9.5mm (3/8).

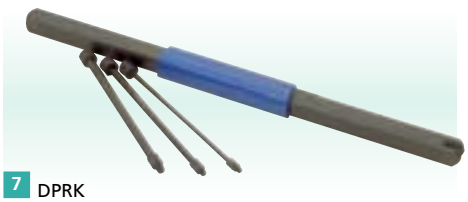
Stock No.	Euro per set	GBP £ per set
13037	€13.95	£9.30

6 CAT247

Corrosion Assessment Tool

Expert Quality, combination tapping hammer, blunt scraper and short lever for checking corrosion levels in bodywork, panels and chassis. Suitable for use in MOT bays. Display packed.

Stock No.	Length	Euro each	GBP £ each
69721	140mm	€12.84	£8.56



7 DPRK

Door Pin Removal Kit

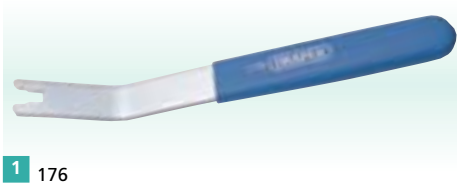
For the removal of hollow hinge pins. Comprises one square handle with chemically blacked finish and three pins manufactured from chrome vanadium steel with chemically blacked finish. Display packed.

Sizes:
- 5.5mm O.D. x 3.5mm I.D.
- 6.5mm O.D. x 4.5mm I.D.
- 7.5mm O.D. x 5.5mm I.D.

*Sold loose

Stock No.	Description	Euro per kit	GBP £ per kit
54585	Removal Kit	€20.19	£13.46
54624	Set of 3 pins*	€12.84	£8.56

Prices are list, each and exclude VAT.



1 176

Door Panel Removal Tool

For break-free door panel clip removal. Display packed.

Stock No.	Euro each	GBP £ each
19193	€5.58	£3.72

2 PR1

Riveter for Plastic Rivets

Expert Quality, metal bodied riveter with self-adjusting rivet jaws. Suitable for securing interior trim panels on most vehicles without damaging the surface. Compact size to access confined working areas. Accepts plastic rivets size: 6.6 x 17.2mm; 6.3 x 25.2mm; 5.0 x 17.2mm and 5.0 x 15.8mm. Supplied complete with 40 assorted rivets. Display packed.

***Bags of replacement rivets size 6.6 x 17.2mm are available separately - see entry.**

Stock No.	Part No.	Description	Euro each/bag	GBP £ each/bag
40140	PR1	Riveter	€34.44	£22.96
40926	APR1	*Bag of 20 Rivets	€7.80	£5.20

3 HDID

4 piece Heavy Duty Inflatable Bag Set

Expert Quality reinforced bags with Schraeder Valve and pump with rubber bulb-type hand inflator. Display packed in plastic wallet.

Contents:
- inflatable bag size: 185 x 40mm with Schraeder Valve
- inflatable bag size: 190 x 60mm with Schraeder Valve
- inflatable bag size: 160 x 60mm with Schraeder Valve
- hand pump with 120mm long flexible air delivery tube with Schraeder Valve

These sets should only be sold to *bona fide* garages and emergency service organisations only.

Stock No.	Euro per set	GBP £ per set
40142	€62.61	£41.74

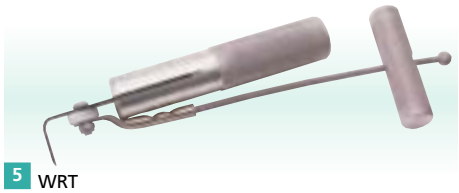
4 WRT2

Bonded Windscreen Removal Tool with Quick Release Blade

Expert Quality, for the removal of bonded windscreens fitted to motor vehicles. The blade cuts the adhesive caulking compound around the windscreen using the specially hardened carbon steel blade. Body length 150mm. Supplied complete with 25mm blade. Spare blades available. Sold loose.

* Sold loose

Stock No.	Description	Euro each	GBP £ each
69931	Removal Tool	€38.49	£25.66
65537	Spare Blade - 19mm*	€3.99	£2.66
38016	Spare Blade - 25mm*	€3.99	£2.66
65538	Spare Blade - 31mm*	€3.99	£2.66



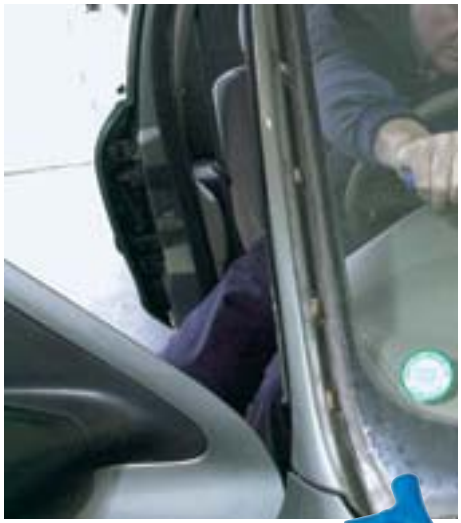
5 WRT

Bonded Windscreen Removal Tool

For the removal of bonded windscreens fitted to motor vehicles. The blade cuts the adhesive caulking compound around the windscreen using the specially hardened carbon steel blade. Body length 163mm. Supplied complete with 25mm blade. Spare blades available - see entry below. Sold loose.

* Sold loose

Stock No.	Description	Euro each	GBP £ each
35098	Removal Tool	€17.46	£11.64
65537	Spare Blade - 19mm*	€3.99	£2.66
38016	Spare Blade - 25mm*	€3.99	£2.66
65538	Spare Blade - 31mm*	€3.99	£2.66

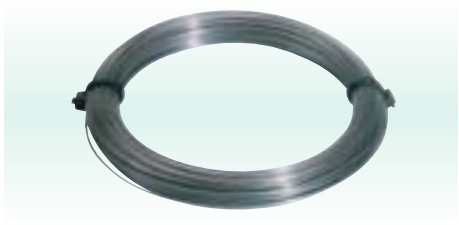


6 WST4

Wire Feeder/Starter

Expert Quality, for feeding/starting wire through the bonding on windscreens. Tool length 265mm (approx.) Wire is also available. Display packed.

Stock No.	Euro each	GBP £ each
65549	€18.51	£12.34



7

Stainless Steel Windscreen Bond Cutting Wire

For cutting the adhesive caulking compound around bonded windscreens. Available as either standard or braided wire. Sold loose.

Stock No.	Part No.	Description	Euro each	GBP £ each
65547	WST2	Square Wire	€16.44	£10.96
65548	WST12	Braided Wire	€17.73	£11.82

SPECIALIST AUTOMOTIVE TOOL APPLICATION GUIDE

- A handy pocket sized guide designed for the quick referencing of Draper specialist automotive tools to vehicle manufacturer/model and application.
- Updated regularly! Ask for our latest edition.

ALSO AVAILABLE ON OUR WEBSITE. Visit... www.draper.co.uk/Pages/Auto.html

8 WST5

Pair of Handles for Windscreen Cutting Wire

Expert Quality, suitable for use with windscreen cutting wire Stock Nos. 65547 and 65548 or other manufacturers similar wire. Manufactured from reinforced resin with soft grip handle and 'quick release' wire clamp. Display packed.

Stock No.	Euro per pair	GBP £ per pair
69730	€40.14	£26.76

safety information

WARNING
Knives or other articles with a blade or sharp point must not be sold to persons underage.
It's the law! (Offensive Weapons Act 1996).

Prices are list, each and exclude VAT.

1 SCDP1

Suction Cup/Dent Puller

Thick rubber pad with plastic handles. Display carton.

Stock No.	Diameter	Euro each	GBP £ each
69187	118mm	€5.16	£3.44

2 WHK1

Windscreen Handling Kit

Ideal when installing and removing windscreens. The twin lever action rubber suction cups are placed on the windscreen providing powerful suction, suitable for handling windscreens up to 80kg. Supplied with ratchet tie down for fixing new screens in position during setting. Display carton.

Stock No.	Euro per kit	GBP £ per kit
61031	€133.23	£88.82

3 SUC2

Twin Suction Lifter

Expert Quality, for the easy lifting of smooth flat surface materials, i.e. glass, marble etc. Suction cups 123mm diameter. Maximum lifting capacity 25kg. Manufactured from high density aluminium alloy. Display packed.

Stock No.	Euro each	GBP £ each
69723	€51.36	£34.24

4 SCDP2

Twin Suction Lifter

For the easy lifting of smooth flat surface materials, i.e. glass, marble etc. Manufactured from tough plastic with rubber suction cups. Suction cups 118mm diameter. Maximum lifting capacity 50kg. Display packed.

Stock No.	Euro each	GBP £ each
71172	€14.46	£9.64

5 SUC3

Triple Suction Lifter

Expert Quality, for the easy lifting of smooth flat surface materials, i.e. glass, marble etc. Suction cups 123mm diameter. Maximum lifting capacity 35kg. Manufactured from high density aluminium alloy. Display packed.

Stock No.	Euro each	GBP £ each
69724	€77.01	£51.34

6 WS2

Window Scraper

Expert Quality, stainless steel with resin handle. For removal of stubborn adhesives etc. Particularly useful for bonded windscreens. Supplied complete with one double-sided blade 38mm wide. Spare blades in pack of 12 available - Stock No.65545. Display packed.

Stock No.	Part No.	Description	Euro each	GBP £ each
65543	WS2	Scraper	€16.71	£11.14
65545	AWS2	12 blades	€4.68	£3.12

7 WST6

Windscreen Wiper Arm Removal Tool

Expert Quality, for the safe and efficient removal of windscreen wiper arms. Avoids damage to vehicle bodywork or wiper assembly. Zinc plated for corrosion protection.

Stock No.	Euro each	GBP £ each
71462	€17.64	£11.76

8 WH1

Window Holder Kit

Two pairs of sucker cups for holding side windows of vehicles during maintenance applications where there is a top door frame. Each pair of sucker cups is attached to each side of window glass and held by looping cables over door frame and forming handle. Display packed.

Stock No.	Euro per kit	GBP £ per kit
65541	€13.47	£8.98

Prices are list, each and exclude VAT.

1 BPR7A

7mm Brake Pad Key with Handle

Expert Quality, chrome vanadium steel key hardened and tempered with a chemically blacked finish. Suitable for various brake pad replacement applications on BMW, Ford and VW/Audi vehicles. Handle length: 140mm. Display packed.

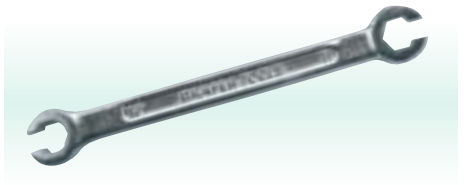
Stock No.	Euro each	GBP £ each
68425	€4.23	£2.82

2 BPR8A

8mm Brake Pad Key with Handle

Expert Quality, chrome vanadium steel key hardened and tempered with a chemically blacked finish. Suitable for disc brake caliper retaining bolts on most BMW models, and GM (Vauxhall/Opel) models. Handle length 140mm. Display packed.

Stock No.	Euro each	GBP £ each
68424	€4.23	£2.82

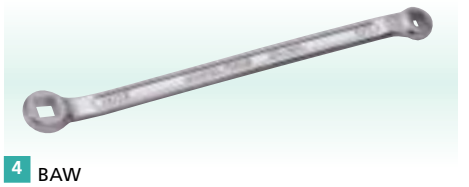


3 BAW-FN

10 x 11mm Flare Nut Wrench

Designed for use on compression nuts fitted on petrol, diesel injection pipes and hydraulic gas or refrigeration systems. Manufactured from chrome vanadium steel hardened, tempered and chrome plated for corrosion protection. Display packed.

Stock No.	Euro each	GBP £ each
31967	€4.62	£3.08



4 BAW

Brake Adjusting Wrenches

Forged from chrome vanadium steel hardened, tempered and chrome plated for corrosion protection. Length 175mm. Display packed.

Stock No.	Size	Euro each	GBP £ each
07200	1/4 x 5/16" AF sq.	€3.84	£2.56
12329	1/4 x 11/32" AF sq.	€3.84	£2.56

5 TC16

3-22mm Mini Tubing Cutter

Expert Quality, adjustable tubing cutter for small bore tubing or in-situ applications where space is limited. Diecast aluminium body, hardened steel blade, two flare groove rollers and deburring reamer in adjusting knob. Display packed.

* Sold loose

Stock No.	Description	Euro each	GBP £ each
10579	Cutter	€10.56	£7.04
26933	Cutting Wheel*	€2.10	£1.40

6 BPF/KIT

Pipe Flaring Tool Kit

For single or double lap flares in soft copper and aluminium pipe. Suitable for 3/16, 1/4, 5/16, 3/8 and 1/2 O/D pipes. Pipe clamp, 45° spreader and five dies. Packed in handy plastic case. Display packed.

*Sold loose

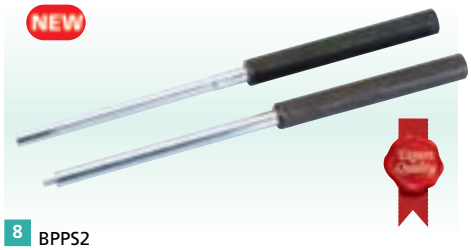
Stock No.	Description	Euro per kit	GBP £ per kit
37870	Tool Kit	€51.24	£34.16
50810	Spare die 3/16*	€2.58	£1.72
50812	Spare die 1/4*	€2.58	£1.72
50813	Spare die 3/8*	€2.58	£1.72
50814	Spare die 1/2*	€2.70	£1.80
51880	Spare die 5/16*	€2.58	£1.72

7 VCPA

6mm GM (Vauxhall/Opel) Brake Caliper Pin Punch

Specially shaped end for the safe removal of brake pad retaining pins fitted to GM (Vauxhall/Opel) vehicles. Display packed.

Stock No.	Euro each	GBP £ each
68426	€3.39	£2.26



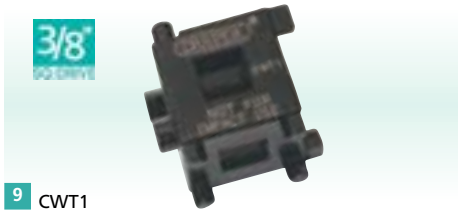
8 BPPS2

2 piece Brake Pin Punch Set

Expert Quality, for the safe removal of brake pad holding pins fitted on most brake calipers. Manufactured from chrome vanadium steel hardened and tempered and chemically blacked for corrosion protection. Display packed.

Contents:
- Punch 6.0mm x 165mm long
- Punch 5.5mm x 165mm long

Stock No.	Euro per set	GBP £ per set
40154	€17.19	£11.46



9 CWT1

3/8" Sq. Dr. Rear Brake Caliper Wind Back Cube

Suitable for most rear brake calipers. Allows the caliper piston to be wound back for the fitting of new brake pads. Five key patterns, chemically blacked finish. Display packed.

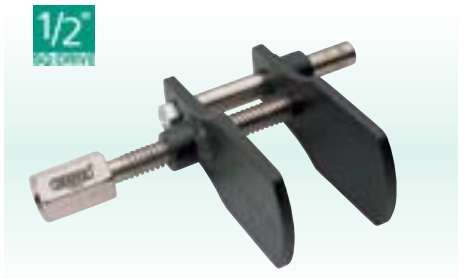
Stock No.	Euro each	GBP £ each
52334	€10.71	£7.14

10 179

ABS Brake Servicing Tool

To wind back the brake pistons on ABS brakes. Suitable for most Ford and Rover vehicles fitted with ABS. Display packed.

Stock No.	Euro each	GBP £ each
22349	€15.27	£10.18



11 CWT2

1/2 Sq. Dr. Brake Caliper Piston Retraction Tool

Ensures parallel piston retraction, thus avoiding damage to piston seals. For use on twin fixed and single piston sliding calipers. Display packed.

Stock No.	Euro each	GBP £ each
52335	€29.73	£19.82

product information

When using specialized automotive tools ALWAYS refer to the vehicle manufacturer's service or relevant Haynes manual for detailed and concise instruction of usage.

Prices are list, each and exclude VAT.

1 CWBT18

18 piece Brake Caliper Wind Back Tool Kit

Expert Quality, left handed and right handed winders allow the easy return of the brake piston into the caliper to provide clearance for new brake pads. Fits most vehicles. Packed in blow mould storage carrying case with display sleeve. Display packed

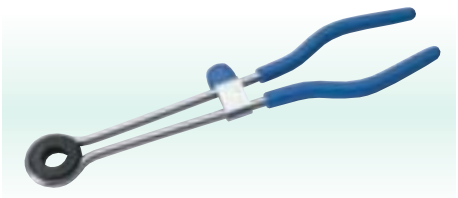
Stock No.	Euro per kit	GBP £ per kit
40141	€125.25	£83.50

2 372

8 piece Brake Caliper Wind Back Tool Kit

Expert Quality, right handed winder allows the easy return of the brake piston into the caliper to provide clearance for new brake pads. Fits most vehicles. Packed in blow mould storage carrying case with display sleeve. Display packed.

Stock No.	Euro per kit	GBP £ per kit
33606	€80.25	£53.50



3 394

Hydraulic Brake Hose Clamp

Designed as a single-handed snap action tool for clamping off hydraulic hoses when working on braking systems. Manufactured from 90 ton tensile steel, fully heat treated with plastic coated handles. Display packed.

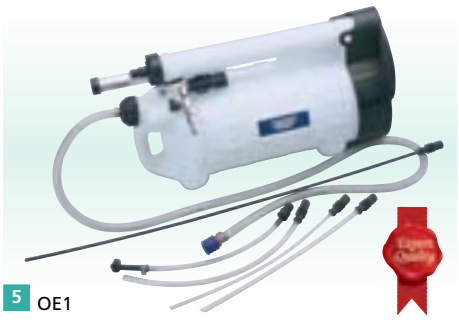
Stock No.	Euro each	GBP £ each
11534	€5.79	£3.86

4 HBSP1

230mm Handbrake Spring Pliers

Expert Quality, spring-loaded pliers with grooves cut into ends to accept handbrake spring cable and circular recess to hold handbrake return spring. Display packed.

Stock No.	Euro each	GBP £ each
89820	€24.27	£16.18



5 OE1

Pneumatic Oil Extraction/Brake Bleeding Kit

Expert Quality, kit ideal for one person operation. For the extraction of engine oils from motor vehicles, motor bikes, marine engines, generators etc. without the removal of the oil drain plug. Requires 71-110psi air supply. Supplied complete with 1.4M of anti-kink hose, 4 x siphon hoses and brake bleeding hose/connector. Display carton.

Specification:

Air supply	...	70-110psi (5-8bar)
Av. air consumption	...	180L/min
Reservoir capacity	...	10L
Oil extraction rate	...	2.5L/min
Air inlet size	...	¼" BSP
Vacuum	...	500mm HG (max.)
Weight	...	2.8kg

Stock No.	Euro per kit	GBP £ per kit
73291	€168.75	£112.50

6 BBK1

Brake Bleeding Kit

A kit designed for one person bleeding of brakes. The one way valve incorporated in the 600mm long silicon tube prevents air returning into the brake system whilst brake bleeding. Display packed.

Stock No.	Euro per kit	GBP £ per kit
37316	€12.24	£8.16

7 BBK3A

Pneumatic Universal Brake Bleeding Kit

Expert Quality, one person hand-operated kit that allows fluid to be drawn from the bleed nipple allowing either bleeding or full replacement of system on cars, vans, trucks and motor bikes. Magnetic bases on refilling bottles. Does not require brake reservoir caps. Supplied complete with reservoir top-up kit. Display carton.

Specification:

Air supply	...	70-120psi (4.8-8.3bar)
Container capacity	...	0.75L
Air inlet size - nipple not supplied	...	¼" BSP

Stock No.	Euro per kit	GBP £ per kit
71205	€69.51	£46.34

8 BFT1

Brake Fluid Tester

Specially designed for checking the moisture content in brake fluid. Comparative electrolyte-type tester which passes current through the fluid and measures any resistance present. Simple to calibrate, very easy to use and read with an audible test cycle. Adjustable test probe for easy access. Uses 1 x 9V battery (PP3 - sold separately). Display packed.

Stock No.	Part No.	Description	Euro each	GBP £ each
59078	BFT1	Tester	€88.98	£59.32
61837	D6LR61/HD	Battery (PP3)	€5.82	£3.88

9 410D-MM

12.5mm ½" Sq. Dr. Pentagon Impact Socket

Expert Quality, five point (pentagon) impact socket for the bendix brakes on Citroën and Peugeot vehicles. Each side of the pentagon is 12.5mm. Forged from chrome molybdenum steel hardened, tempered and chemically blacked for corrosion protection. Display packed.

Stock No.	Euro each	GBP £ each
55993	€5.16	£3.44

10 H-PEN

½" Sq. Dr. Pentagonal Girling Brake Bit

Expert Quality, five point (pentagon) insert bit in socket holder. Socket is manufactured from chrome vanadium steel hardened tempered and chrome plated. The bit is made from S2 silicon steel hardened, tempered and chemically blacked. For use on most vehicles fitted with Girling brake systems. Display packed.

Stock No.	Euro each	GBP £ each
65304	€6.24	£4.16

Prices are list, each and exclude VAT.

1 FTB3

Towing Brace

Manufactured to GS/TUV Specifications.
Maximum rated load 2000kg. Length between hooks - 1800mm.
Supplied in storage bag with ON TOW sign. Display carton.

Stock No.	Euro each	GBP £ each
88621	€40.68	£27.12

2 TR2000

3.7M Tow Ropes

Manufactured to BS AU 187.
High visibility yellow polypropylene with 'On Tow' sign and warning flag. Hooped one end and a zinc plated safety hook on the other. Display packed.

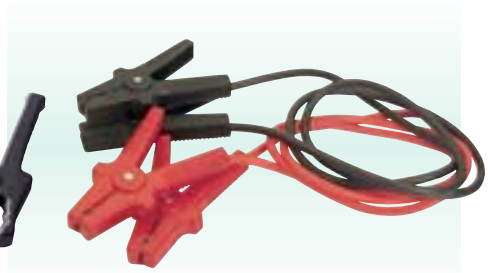
Stock No.	Capacity	Euro each	GBP £ each
63410	2000kg	€10.86	£7.24
65297	4000kg	€21.75	£14.50

4 JL16

3M Heavy Duty Copper Battery Booster Cables

Manufactured to BSAU 237a Specification.
Expert Quality, suitable for 12V and 24V cars and light commercial vehicles up to around 2000cc. Heavy duty copper cable (16mm²) and fitted with heavy duty fully insulated clips. Display packed in resealable PVC bag.

Stock No.	Cable Dia.	Euro each	GBP £ each
51874	16mm²	€58.77	£39.18



6 JL10

2M Battery Booster Cables

Suitable for 12V cars and light commercial vehicles. 10mm² copper cable fitted with fully insulated clips. Display packed in resealable PVC bag.

Stock No.	Cable Dia.	Euro each	GBP £ each
51945	10mm²	€28.17	£18.78

3 TR2500A

4.27M Concertina Tow Rope

Manufactured in accordance with BS AU 187.
Sixteen strand polyethylene with safety hooks and lock which are zinc plated forged S45C carbon steel. Display packed.

Stock No.	Euro each	GBP £ each
67256	€16.14	£10.76

5 JL25

Heavy Duty Battery Booster Cables

Manufactured to BSAU 237a Specification.
Expert Quality, suitable for 12V and 24V cars and light commercial vehicles. Heavy duty copper cable (25mm²) and fitted with heavy duty fully insulated clips. Display packed in resealable PVC bag.

Stock No.	Length	Cable Dia.	Euro each	GBP £ each
51875	3M	25mm²	€75.81	£50.54
54600	5M	25mm²	€116.24	£77.49

7

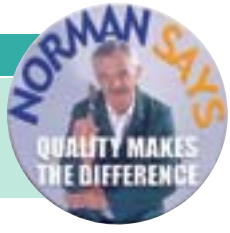
Voltage Surge Protectors

12 or 24V DC versions; increases voltage surge protection for vehicle electronics during welding, jump starts, plasma cutting, battery connection/disconnection and other repair applications. Connects across vehicle's battery. Display packed.

Stock No.	Part No.	For Voltage	Euro each	GBP £ each
39107	VSP12	12V DC	€17.01	£11.34
66156	VSP24	24V DC	€20.07	£13.38

norman says

BATTERY BOOSTER CABLES
All our battery booster cables use quality copper cables with heavy duty clips which are correctly crimped and coated in durable plastic which does not go brittle in the cold. The 16mm² and 25mm² are for 12V and 24V systems and conform to British Standard BSAU237a. This means they have passed stringent tests ensuring they'll work when you need them. Our Stock No. 54600 is extra long for commercial vehicles where it may not be so easy to position the vehicles close to each other. As a general rule of thumb use 25mm² cables for vehicles over 2000cc and diesel engined vehicles



Prices are list, each and exclude VAT.

1

20L Steel Fuel Can

NEW

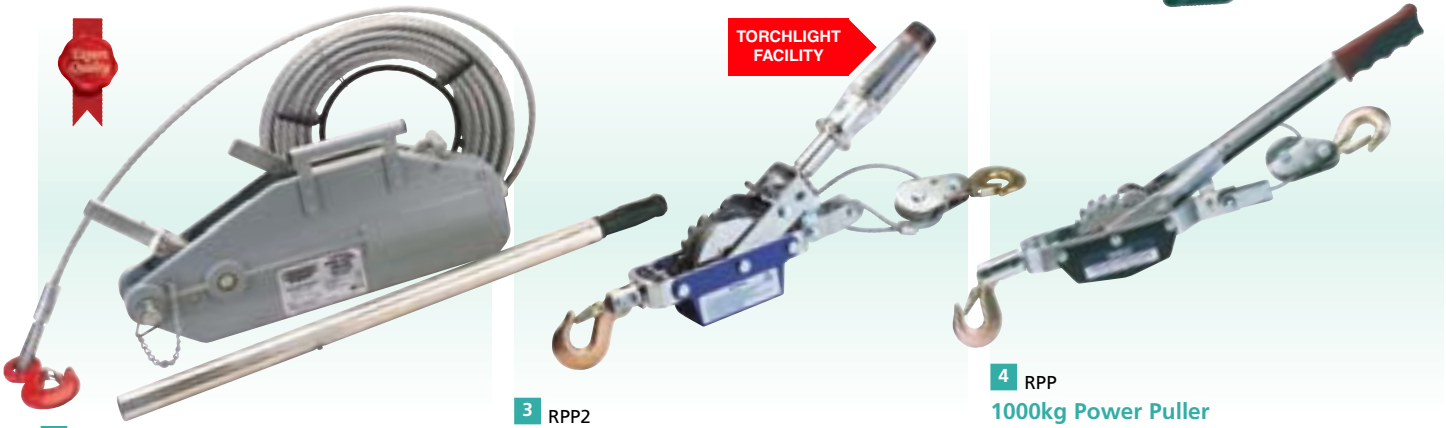
Manufactured from 0.9mm sheet steel, this robust fuel can will store flammable liquids (only). Patented cap locking system keeps the contents secure and the bayonet cap closure device ensures can is leakproof in any position. Wide channel breather for smooth and steady pouring. Sold loose. A fuel delivery spout is also available Stock No. 89198.

Stock No.	Part No.	Description	Euro each	GBP £ each
89196	SFC20L	Can	€45.39	£30.26
89198	SFC SPOUT	Spout	€16.44	£10.96

product locator

A handy folding steel shovel is available, see page 229.

NEW



2 WRP1

Wire Rope Hoist/Winch

Expert Quality, adaptable drumless hoist/winch designed for lifting or pulling. Supplied complete with handle and 20M of wire rope with hook. Spare lengths of wire rope available. Carton packed

Specification:

Lifting capacity	... 1600kg
Pulling capacity	... 2400kg
Wire Rope	... 11mm dia.
Overall size	... 545 x 284 x 97mm
Weight	... 12kg

Stock No.	Description	Euro each	GBP £ each
71208	Wire Rope Hoist/Winch	€465.51	£310.34
71353	20M Wire Rope with hook	€120.39	£80.26

3 RPP2

800kg Power Puller with Torchlight Feature

Manufactured to GS Specification.
Suitable for pulling heavy objects such as cars, boats, logs, etc. Two pressed steel gears with twin locking pawls. Detachable torch incorporated into handle. Uses 2 x AAA batteries (supplied separately). Display carton.

Specification:

Capacity	
- pulling	... 800kg
Leverage ratio	... 15:1
Cable diameter	... 5mm

Stock No.	Part No.	Description	Euro each	GBP £ each
87376	RPP2	Puller	€59.40	£39.60
61833	DLR03/HD	Batteries (4 x AAA)	€3.21	£2.14

4 RPP

1000kg Power Puller

Manufactured to GS Specification.
Suitable for pulling heavy objects such as cars, boats, logs, etc. Two pressed steel gears with twin locking pawls. An extension cable 6M long x 6mm dia. is available as is a spare cable assembly - see entry. Display carton.

Specification:

Capacity	
- pulling	... 1 tonne
- breaking	... 2 tonne
Leverage ratio	...
Cable diameter	... 5mm

Stock No.	Part No.	Description	Euro each	GBP £ each
51934	RPP	Puller	€56.07	£37.38
51935	ARPP	Ext. Cable	€28.92	£19.28
52220	YRPP	Cable Assy	€16.08	£10.72

5 WT1

Vehicle Warning Triangle

To European Standard ECE R27 and tested to E1 Specifications
Folding design with stand and rubber feet. Manufactured from ABS plastic. Supplied in plastic carrying case. Display carton.

Stock No.	Euro each	GBP £ each
71425	€12.06	£8.04

1 NCAKA

17 piece Universal Clutch Aligning Kit

For fast accurate alignment of flywheel pilot hole and clutch drive plate when assembling to car. Precision manufactured steel bushes with chemically blacked finish. Suitable for use on most cars and light commercial vehicles. Display packed in handy storage case.

Stock No.	Euro per kit	GBP £ per kit
39223	€32.07	£21.38

2 CAKT

Clutch Mate® - Universal Clutch Aligning Assembly Tool

This revolutionary tool makes quick work of accurately aligning the clutch and pressure plate before fitting. Fits most vehicles up to 5 tons except vehicles with double plate clutches. Body manufactured from ABS with brassed screw and supplied with three collets. A full instruction leaflet is included with each tool. Display packed.

Stock No.	Euro each	GBP £ each
52329	€10.59	£7.06

3 N141/A

Flywheel Puller

For use on Rover Group vehicles fitted with transverse 1100/1300cc power units with either diaphragm or verto clutches. Comprising drop forged carbon steel plate and bolts. Display packed.

Stock No.	Euro each	GBP £ each
19862	€27.33	£18.22

4 WPW-AC1

255mm Waterpump Pulley Locking Wrench

Expert Quality, for holding the waterpump pulley on VW/Audi vehicles without air conditioning. Forged carbon steel with 18mm offset head and ½" square drive facility in handle to assist torque. Display packed.

Stock No.	Euro each	GBP £ each
89789	€34.44	£22.96

5 WPW-AC1

300mm VW/Audi Waterpump Pulley Locking Wrench for Air Conditioned Vehicles

Expert Quality, for holding the waterpump pulley on VW/Audi vehicles with air conditioning. Forged carbon steel sand blasted and chrome plated with PVC dipped handle. 40mm offset head allows access to waterpump. Display packed.

Stock No.	Euro each	GBP £ each
89790	€36.81	£24.54

6 TVF2

32 x 36mm Double End Thermoviscous Fan Nut Wrench

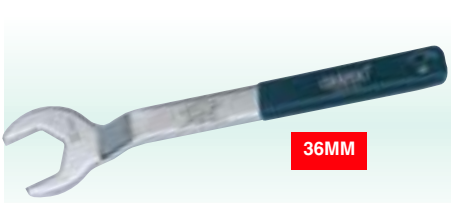
Expert Quality, for the removal and replacement of thermo-viscous fan hub nuts fitted to BMW/Ford and GM (Vauxhall/Opel) vehicles. Manufactured from sand blasted carbon steel with a chrome plated finish. Display packed.

This product is only for use on thermo-viscous fans on BMW, Ford and GM (Vauxhall) vehicles and not for general usage.

Stock No.	Length	Euro each	GBP £ each
89795	335mm	€13.62	£9.08

product information

Every effort has been made to ensure that the applications shown in the 2007 Draper Tools Catalogue are accurate and include all the current car/van models.
When using specialized automotive tools ALWAYS refer to the vehicle manufacturer's service or relevant Haynes manual for detailed and concise instruction of usage.



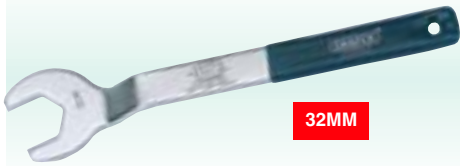
7 FHW36

36mm Thermo-Viscous Fan Nut Wrench

Manufactured from pressed steel hardened, tempered and chrome plated with PVC dipped handle. For the removal of thermo-viscous fans fitted to Ford and GM (Vauxhall/Opel) vehicles. Display packed.

NB: Only for use on fixings of thermo-viscous fans on Ford and G.M. (Vauxhall/Opel) vehicles. NOT for general usage.

Stock No.	Length	Euro each	GBP £ each
52582	270mm	€8.52	£5.68



8 FHW32

32mm Thermo-Viscous Fan Nut Wrench

Manufactured from pressed steel hardened, tempered and chrome plated with PVC dipped handle. For the removal of thermo-viscous fan hubs fitted to Ford and BMW vehicles. Display packed.

NB: Only for use on fixings of thermo-viscous fans on Ford and BMW vehicles. NOT for general usage.

Stock No.	Length	Euro each	GBP £ each
52581	270mm	€8.52	£5.68

SPECIALIST AUTOMOTIVE TOOL APPLICATION GUIDE

- A handy pocket sized guide designed for the quick referencing of Draper specialist automotive tools to vehicle manufacturer/model and application.
- Updated regularly! Ask for our latest edition.

ALSO AVAILABLE ON OUR WEBSITE. Visit... www.draper.co.uk/Pages/Auto.html

Prices are list, each and exclude VAT.

1 4424

41mm ½" Sq. Dr. Waterpump Wrench

Expert Quality, manufactured from EN8 carbon steel plate hardened and tempered with zinc plated finish. Adjusts the tension of the timing belt, by rotating the waterpump. Suitable for GM (Vauxhall/Opel) engines, 1987 onwards (types LZ and SV) and Daewoo Nexia (1.5 OHC) Nexia and Espero (1.5 DOHC). Display packed.

Stock No.	Euro each	GBP £ each
31486	€12.06	£8.04

2 4424

46mm ½" Sq. Dr. Waterpump Wrench

Expert Quality, manufactured from EN8 carbon steel plate hardened and tempered with zinc plated finish. Adjusts the tension of the timing belt, by rotating the waterpump. Suitable for GM (Vauxhall/Opel) engines size: 1.6, 1.7D and 1.8 pre 1987 and 2.0 1987 onwards and Daewoo Espero (1.8 and 2.0 SOHC). Display packed.

Stock No.	Euro each	GBP £ each
31487	€12.06	£8.04

3 HC102

6-25mm Rubber Hose and Pipe Cutter

Plier-action cutter with diecast zinc alloy body. Fitted with reversible hardened and tempered replaceable steel blade. Length 190mm. Display packed.

*Sold loose.

Stock No.	Description	Euro each	GBP £ each
54463	Pipe Cutter	€21.09	£14.06
54485	Cutting Blade*	€8.88	£5.92

4 HCP2

180mm Clic and Clic-R Hose Clamp Tool

Expert Quality, used to release and refit reusable hose clips. For releasing and refitting clic and clic-R type metal hose clips fitted to most engines. Spring loaded forged handles with PVC dipped grips. Display packed.

Stock No.	Euro each	GBP £ each
89791	€25.50	£17.00

5 RHCP1

230mm Flexible Ratchet Hose Clamp Pliers

Expert Quality, for the removal and replacement of metal or plastic spring-loaded self-tightening hose clamps. Ideal for working in confined engine bays. Flexible long reach mechanism allows the pliers to release and lock hose clamps in the opened position. Fitted with 700mm long cable. For clamp diameters from 18mm to 54mm (approx.). Display packed.

Stock No.	Euro each	GBP £ each
89793	€57.93	£38.62

6 HCP5

5 piece Hose Clamp Pliers Kit

Expert Quality, for the removal and replacement of most types of spring-loaded self-tightening hose clamps. Packed in blow moulded case with display sleeve.

Contents:

- 280mm Flexible Ratchet Hose Clamp Pliers with twin remote cables 700mm long with flat ended hose clamping section - ideal for inaccessible confined spaces
- 250mm Spring-Loaded Multi-Purpose Hose and Wire Clamp Pliers with rotating curved interlocking jaw to help remove hoses from any angle - for use with air , water or liquid hoses up to ¾" dia.
- 200mm Cup and Slot Pattern Ratchet Hose Clamp Pliers - for securely holding opened hose clamps
- 200mm Cross pattern Ratchet Hose Clamp Pliers - for securely holding opened hose clamps
- 200mm V Pattern Ratchet Hose Clamp Pliers - for securely holding opened hose clamps

Stock No.	Euro per kit	GBP £ per kit
89794	€155.04	£103.36

7 HCD

Hose Clip Driver

Expert Quality, for use on hose clips. Spring steel flexible shaft with 6 x 7mm hexagon adaptor to undo radiator hose clips. Triangular-shaped Super-Grip™ handles manufactured from black PVC afford excellent grip giving high torque. Display packed.

Stock No.	Blade Length	Euro each	GBP £ each
56945	150mm	€8.04	£5.36

8

Hose Clamp Sets

Makes hose clamps of users required length. Two widths of banding available, 8 and 12mm. Each set is supplied with a 3M length of banding and eight tensioning clamps. Display packed.

Stock No.	Part No.	Banding Width	Euro per set	GBP £ per set
55591	HC8MM	8mm	€7.17	£4.78
55592	HC12MM	12mm	€10.20	£6.80

9 HW1

20 piece Hose Clamp Assortment

Popular size hose clamps with plated finish for corrosion protection. Packed in plastic storage case with label.

Stock No.	Euro p/assrt	GBP £ p/assrt
61267	€7.26	£4.84

product information

When using specialized automotive tools ALWAYS refer to the vehicle manufacturer's service or relevant Haynes manual for detailed and concise instruction of usage.

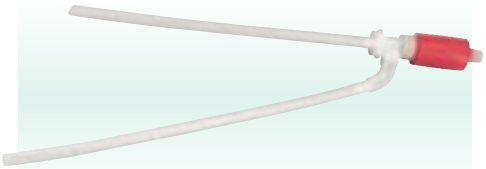
DRAPER

1 AFT-2

Anti-Freeze Tester

For testing ethylene glycol coolant (anti-freeze) density. With glass tube, PVC bulb and spout. Sold in plastic display tube.

Stock No.	Range	Euro each	GBP £ each
61794	-5 to -40°C	€6.57	£4.38



2 SP1

Syphon Pump

Manufactured from plastic, the pump is a useful item for transferring a wide variety of inert liquids. Display packed.

Stock No.	Euro each	GBP £ each
43650	€3.03	£2.02

3 SP2

1.8M Syphon Pump

Manufactured from plastic, suitable for transferring inert liquids. The pump has as in-line squeeze bulb giving an enhanced distance capacity. Display packed.

Stock No.	Euro each	GBP £ each
18140	€3.42	£2.28

electrical and diagnostic tools

4 DMM5

Digital Automotive Analyser

Expert Quality, Ideal for automotive use. Display packed.
Features include:
- 24 position rotary function and range selector
- Measures DC volts and DC amps
- Measures resistance and dwell angle
- Takes tachometer readings
- Diode test facility
- Audible continuity tester
- Impact resistant rubber case
- Recessed input terminals
- Low battery indicator
- Test leads (probes and crocodile clips)

Specification:

DC amps	... 10A
DC volts	... 200mV, 2, 20, 200 and 1000V
Resistance (Ohms)	... 200, 2k ,20k, 200k, 2M and 20M
Tachometer (x10rpm)	... 500-10,000
Dwell angle	... 3 cyl. 0-120°: 4 cyl. 0-90° 5 cyl. 0-120°: 6 cyl. 0-60° 8 cyl. 0-45°
Battery (supplied)	... 1 x 9V PP3 type
Size (W x H x D)	... 70 x 147 x 39mm
Weight:	... 189g

*Sold loose.

Stock No.			Euro each	GBP £ each
50024	DMM5	Automotive Analyser	€49.77	£33.18
53551	YDMM8	Probe Set*	€5.64	£3.76
61837	D6LR61/HD	Battery (PP3)	€5.82	£3.88

norman says

DIGITAL AUTOMOTIVE ANALYSERS (Item Nos. 4 and 6 this page) A must for any auto technician or home mechanic. RPM and dwell features for 1, 2, 3, 4, 5, 6, 8, 10 and 12 cylinder vehicles and...yes they will do twin and single cylinder motorcycles. Just set it to 4 cylinder and double the reading for twin cylinder machines, or quadruple it for single cylinder machines.

5 DMM14

Digital Autoranging Automotive Analyser

Expert Quality, with autoranging facility on AC/DC voltage and resistance. Ideal for automotive use. Display packed.
Features include:
- 24 position rotary function selector
- Measures AC and DC volts/amps (autoranging)
- Measures resistance (autoranging) and dwell angle
- Takes tachometer readings
- Measures duty cycle and frequency
- Diode test facility
- Audible continuity tester
- Temperature sensor
- Impact resistant rubber case
- Recessed input terminals
- Low battery indicator
- Test leads (probes and crocodile clips)
- Heavy duty inductive pick up

Specification:

DC volts	... 320mV, 3.2, 32, 320 and 1000V
AC volts	... 3.23232 and 750V
DC current	... 320µ and 3200µA, 33mA 320mA and 10A
AC current	... 320µ and 3200µA, 33mA 320mA and 10A
Resistance (Ohms)	... 320, 3.2, 32k, 3.2M and 32M
Tachometer (x10rpm)	... RPM4 600-3200 RPM2 300-3200
Dwell angle	... 2 cyl. 0-180°: 3 cyl. 0-120° 4 cyl. 0-90°: 5 cyl. 0-72° 6 cyl. 0-60°: 8 cyl. 0-45°
Duty cycle	... 1 - 90%
Frequency	... 320Hz, 3200Hz and 32KHz
Temperature range	... -20 to 750°C and -4 to 1400°F
Battery (supplied)	... 1 x 9V PP3 type
Size (W x H x D)	... 91 x 189 x 31.5mm
Weight:	... 280g (analyser only)

Stock No.	Part No.	Description	Euro each	GBP £ each
61023	DMM14	Automotive Analyser	€93.12	£62.08
61837	D6LR61/HD	Battery (PP3)	€5.82	£3.88

6 DMM17

Digital Automotive Autoranging Analyser with RS232 Interface

Expert Quality, ideal for automotive use. RS232 interface cable for use with PC. Software supplied on CD-ROM. Supplied in soft storage case. Display carton.
Features/functions include:
- 16 position rotary function and range selector
- Measures AC/DC volts and AC/DC amps
- Measures resistance and dwell angle
- Takes tachometer readings
- Measures duty cycle/pulse width and frequency
- Diode test facility
- Audible continuity tester
- Recessed input terminals
- Test leads (probes and crocodile clips)
- Inductive pick up
- Temperature sensor
- Negative polarity indicator
- Large LCD screen with backlight
- Low battery indicator
- Overload protection
- Auto power off

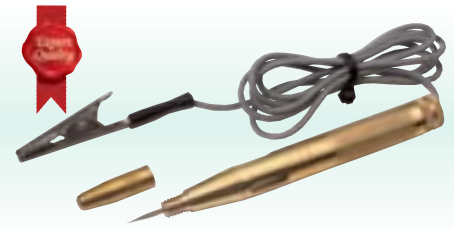
Specification:

DC volts	... 400mV, 4, 40, 400 and 1000V
AC volts	... 400mV, 4, 40, 400 and 750V
DC current	... 400µA, 4000µA, 40mA, 400mA, 4A and 20A
AC current	... 400µA, 4000µA, 40mA, 400mA, 4A and 20A
Resistance (Ohms)	... 400, 4k, 40k, 400k 4M and 40M
Tachometer (x10rpm)	... RPM4 600-4000 RPM2 300-4000
Dwell angle	... 1 cyl. 0-360°: 2 cyl. 0-180° 3 cyl. 0-120°: 4 cyl. 0-90° 5 cyl. 0-72°: 6 cyl. 0-60° 8 cyl. 0-45°: 10 cyl. 0-36° 12 cyl. 0-30°
Capacitance	... 40.00nf - 100.0µF
Duty cycle	... 0.1-99.9%
Frequency	... 5Hz-30kHz
Pulse width	... 2.0-10.0ms
Period check	... 2.0-10.0ms
Temperature range	... -20 to 760°C and -4 to 1400°F
Battery (supplied)	... 1 x 9V PP3 type
Size (W x H x D)	... 88 x 197 x 41mm
Weight:	... 390g (analyser only)

Stock No.	Part Part	Description	Euro each	GBP £ each
79004	DMM17	Analyser	€200.67	£133.78
61837	D6LR61/HD	Battery (PP3)	€5.82	£3.88

Prices are list, each and exclude VAT.

DRAPER



1 1170

6-24V Car Electric Circuit Tester

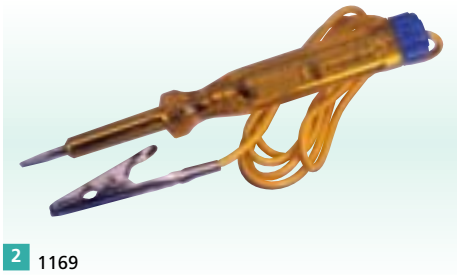
Expert Quality, tester with solid brass body housing a test light. Insulation piercing contact point with protective screw cap. Testing range 6-24 V DC Supplied complete with 750mm of insulated cable with crocodile clip. Display packed.

Warning: For testing DC circuits on cars within the voltage range only. Not suitable for testing mains supply AC circuits.

Stock No.	Euro each	GBP £ each
12579	€5.19	£3.46

product locator

See pages 63-66 for a selection of battery starter/chargers and power packs



2 1169

6-24V Screwdriver/Car Electric Circuit Tester

Circuit tester with transparent plastic handle, housing neon light. Testing range 6-24V DC Supplied complete with 750mm of insulated cable with crocodile clip. Display packed.

Warning: For testing DC circuits on cars within the voltage range only. Not suitable for testing mains supply AC circuits.

Stock No.	Length	Blade Dia.	Tip	Euro each	GBP £ each
12578	48mm	3mm	3mm	€3.57	£2.38

3 1181

6-24V Heavy Duty Automotive Circuit Tester

Expert Quality, with insulated blade 170mm long, 3.5M approx. (stretched) of recoil lead and heavy duty earth (crocodile) clip. Testing range 6-24V DC Display packed.

Warning: For testing DC circuits on cars within the voltage range only. Not suitable for testing mains supply AC circuits.

Stock No,	Euro each	GBP £ each
56498	€25.47	£16.98

4 DMM18

Automotive Tachometer

Measures two stroke, four stroke and distributorless ignition systems (DIS) by inductive pickup. Display packed.

Features/functions include:

- 1 to 8 cylinder
- x10 reading
- Data holding facility
- Large 2000 count LCD
- Low battery indicator
- Auto power off

Specification:

RPM4	...	600-2000 (x10rpm)
RPM2	...	300-3200 (x10rpm)
Battery (supplied)	...	1 x 9V PP3 type
Size (W x H x D)	...	76 x 155 x 47mm
Weight:	...	210g

Stock No.	Part No.	Description	Euro each	GBP £ each
79005	DMM18	Tachometer	€42.57	£28.38
61837	D6LR61/HD	Battery (PP3)	€5.82	£3.88

5 1177

In-Line H.T. Ignition Tester

Establishes whether there is a high tension spark potential at the spark plug. Hands free operation means no risk of electric shock to user. Ideal for modern vehicles with sensitive electronics. Probe is 55mm long with a lead 100mm in length. Display packed.

Stock No.	Euro each	GBP £ each
38898	€7.98	£5.32

6 1175

6-12V Automotive Circuit Tester

Circuit tester with 1.5M of heavy duty cable and earth (crocodile) clip. Insulated contact point to prevent accidental shorting. Range 6-12-24V DC. Display packed.

Warning: For testing DC circuits on cars within the voltage range only. Not suitable for testing mains supply AC circuits.

Stock No.	Euro each	GBP £ each
36583	€12.06	£8.04

7 1176

Battery and Alternator Analyser

Checks battery charge level and alternator output level. 880mm of insulated cable with test probe and earth (crocodile) clip. For 12V DC systems only. Display packed.

Warning: For testing DC circuits on cars within the voltage range only. Not suitable for testing mains supply AC circuits.

Stock No.	Euro each	GBP £ each
36584	€15.75	£10.50

8 1182

3-12V Automotive Multi-Tester

Suitable for checking continuity/broken wires, finding live wires, other DC voltage testing from 3-12V, vehicle battery testing, spark plug ignition voltage test. Suitable for 3-12V DC systems. Display packed.

Warning: For testing DC circuits on cars within the voltage range only. Not suitable for testing mains supply AC circuits.

Stock No.	Euro each	GBP £ each
57680	€12.81	£8.54

9 SI15/12VA

12V DC 15W Soldering Iron

Soldering iron with car cigarette lighter plug and 1.2M of cable. Supplied complete with straight tip. An ideal tool for use in vehicles and by model makers. Display packed.

*Sold loose

Stock No.	Part No.	Description	Euro each	GBP £ each
71422	SI15/12VA	Soldering Iron	€9.42	£6.28
71931	YSI25K	25W Tip*	€2.28	£1.52

10 1179

4 piece H.T. System Tester Set

Four testers suitable for quick checking of H.T. systems. Indicates if voltage is present in H.T. leads and helps identify whether problem is with H.T. leads or L.T. parts (coil, distributor etc.). Can be used in all cylinder combinations. Display packed.

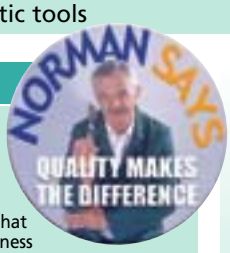
Stock No.	Euro per set	GBP £ per set
56495	€12.81	£8.54

safety information

CAR ELECTRIC CIRCUIT TESTERS

Item Nos. 5 and 6 page 76 and Item Nos. 1, 2, 3, 5, 6, 7 and 8 are only suitable for checking automotive circuits **not** mains A C circuits. Mains Testing Screwdrivers are also available - see pages 278 and 279.

norman says



INJECTOR NOID LIGHTS
(Item No. 1) These are used to check whether the fuel injection system of a vehicle is working. It is a small incandescent bulb in a socket that fits directly into the wiring harness leading to the fuel injectors. The connector is taken off the injector and the noid light is plugged in. When the engine is cranked and the on-board computer is OK then the light will flash; if not further diagnosis will be required.

1 INL6/KIT

6 piece Injector Noid Light Kit

Quick, efficient and economic way to fault find on the following electronic fuel (EFI) systems: GM PFI, GM TBI, GM SCPI, Ford TBI, GEO TBI and Bosch PFI. Packed in blow mould case. Display carton.

Stock No.	Euro per kit	GBP £ per kit
57798	€20.07	£13.38

2 TL3

Pistol-Grip Xenon Timing Light

Suitable for checking ignition timing on automotive, agricultural and marine engines (12V DC). Features include xenon bulb and inductive pick-up. Impact-resistant housing with on/off trigger. Display packed.

Stock No.	Euro each	GBP £ each
52616	€52.86	£35.24

3 FCR-CIT/PEUG

Citroën/Peugeot Fault Code Reader

Expert Quality, suitable for the extraction of constant and intermittent faults on most modern vehicles by way of the onboard computer. Plugs into the diagnostic socket. Codes encountered can be interpreted via the vehicle instruction book or the Draper/Haynes Fault Code TechBook. Display carton.

Suitable for petrol vehicles with engine management/injection systems:
Citroën: AX 1991>, BX 1990, BX 1990>, XM 1989, XM 1989>, Xantia 1993, Xantia 1993>, ZX 1991, ZX 1991>
Peugeot: 106 1991>, 205 1988, 205 1988>, 306 1993, 306 1993>, 309 1988, 309 1988>, 405 1987, 405 1987>, 605 1990, 605 1990>
System Types: Magneti Marelli G5 single & multipoint, G6.11, 8P & AP, Fenix 1B, 3B & 4, Mono-Jetronic, Mono-Motronic MA3.0, Motronic M1.3, MP3.1, MP3.2, ML4.1, MP5.1, 5.1.1

Stock No.	Euro each	GBP £ each
68079	€24.42	£16.28

4 FCR-VW/AUDI

Volkswagen/Audi Fault Code Reader

Expert Quality, see Item No.3 for general product information.

Suitable for petrol vehicles with engine management systems/injection systems
Volkswagen: Golf/Vento 1.4, 1.8 1991-1995, 2.0 8V 1991-1995, Golf 2.0 16V 1992-1996, Passat 1.8, 2.0 16V, 2.8 VR6, 1993-1996
Audi: 80 1.6, 2.0

Stock No.	Euro each	GBP £ each
68081	€24.42	£16.28

5 FCR-FORD-3PIN

Ford 3 Pin Fault Code Reader

Expert Quality, see Item No.3 for general product information.

Suitable for 3 pin fuel injection EEC IV ECU:
Fiesta, Escort, Orion, Sierra, Sapphire, Granada, Scorpio: 1.1, 1.3, 1.4, 1.6, 1.8 CVH EFI, 1.3HCS CFI, 1.6, 1.6 Turbo CVH EFI (exc. 1.6 CVH EFI & Turbo KE Jetronic), 2.0D OHC & OHC EFI

Stock No.	Euro each	GBP £ each
68082	€24.42	£16.28

6 FCR-FORD-5PIN

Ford 5 Pin Fault Code Reader

Expert Quality, see Item No.3 for general product information.

Suitable for 5 pin Fuel Injection EEC IV ECU:
Cosworth: 2.0 (Weber/Marelli) 1986-1990, 4x4 1990-1992
Escort, Orion: 1.6CVH (KE Jetronic) 1986-1990
Sierra, Sapphire: 2.0 OHC (non catalyst), 2.8 V6 1986, 2.9 V6 (non catalyst)
Granada, Scorpio: 2.0 OHC, 2.4 V6 (non catalyst), 2.8 V6 1986, 2.9 V6 EFI (non catalyst)
Transit: 2.0 OHC CFI/EFI, 2.9 V6 EFI (non catalyst)

Stock No.	Euro each	GBP £ each
68080	€24.42	£16.28

DRAPER

7 FCR-VAUX/OPEL

GM (Vauxhall/Opel) Fault Code Reader

Expert Quality, see Item No.3 for general product information.

Suitable for:
Fuel Injection from 1986: Motronic M, Motronic ML, Ecotronic Multec, Multec M, Multec S, Simtec 5.6
Electronic Ignition Advance Control from 1989: EI Plus

Stock No.	Euro each	GBP £ each
68083	€24.42	£16.28

8 FCR-ROV/HONDA

Rover/Honda Fault Code Reader

Expert Quality, see Item No.3 for general product information.

Suitable for:
Rover: PGM-FI 825 2.5i 1986-1988, 827 2.7i 1988-1996, 216/416 (D series) 1989, 620 (not turbo)/623 1993, 618 1995-1997, all V6 SOHC 24V 1986-1996, (not suitable for K Series engines)
Honda: PGM-FI & PGM-CARB - Accord 2.0i 1986, 2.0i/2.2i 1990, 2.3i 1993; Bali 1.3 16V (carb) 1991-1995; Ballade 1.5i; Civic DX 1.3 16V (carb) 1991-1995, Civic 1.5i 1986-1989, 1.6i 1987-1991, 1.8i 16V CRX 1988-1991; Concerto 1.5i/1.6i 1991-1995, 1.6i/1.8i; Integra 1.5i/1.6i 1991-1995; Legend 2.5i 1986-1988, 2.7i 1987-1991; Prelude 2.0i 1990, 2.2i/2.3i 1992

Stock No.	Euro each	GBP £ each
68084	€24.42	£16.28

9 FCR-NISSAN

Nissan Fault Code Reader

Expert Quality, see Item No.3 for general product information.

Suitable for:
Micra 1.0/1.3, GA16DS/GA16DE
Sunny: 1.4i/1.6i/1.8, GA16i
Almera: 1.4i/1.6i, GA14/16/18DE
200SX: CG13DE/CG10DE and SR20DE/SA18DET/SR20DET

Stock No.	Euro each	GBP £ each
69058	€24.42	£16.28

10 FCR-TOY/SUZ

Toyota/Suzuki Fault Code Reader

Expert Quality, see Item No.3 for general product information.

Suitable for:
Suzuki: G13B, G16B 1989-1996, G10A, G13A 1991-1996; Swift (SF) GTI 1.3i 1986-1992; Vitara 1.6i 8V/1.6i 16V, G16A/G16B 1991-1996 and H20A 1995-1996
Toyota: (TCCS/TCDL System): Carina E 1.6i/2.0i, 4A-FE/3S-GE/3S-FE; Corolla 1.6 4x4 4A-FE 1988-1991, 1.6i 4A-FE 1992; Camry 2.0 3S-FE 1987-1991; MR2 SW20 3S-FE 1990-1994, 16 ohc 4A GEL 1990-1994, SW20 (GT) 4A-GE/3S-GE no catalyst 1990-1992, with catalyst 1992-1996, AV4 SXA10 3S-FE 1994; Celica 2.0 GT 1986-1990, 2.0i GT 1990-1992, catalyst version 3S-GE 1994

Stock No.	Euro each	GBP £ each
69059	€24.42	£16.28

11 FCR-DIG

Digital Fault Code Reader

Expert Quality, for use on vehicles with OBD compliant engines. Digital readout and push switch. Full vehicle listing is included. Supplied complete with cable, diagnostic connector and soft storage case. Display carton.

Stock No.	Euro each	GBP £ each
79143	€248.97	£165.98

Prices are list, each and exclude VAT.

1 FCR

Fault Code Reader and Haynes Techbook

For reading fault codes in vehicle ECU diagnostic systems. Supplied complete with Ford, GM adaptors and Draper/Haynes Fault Code TechBook. The Fault Code Reader Requires 1 x 9V battery (PP3 type - sold separately) and is supplied in soft storage case. The GM Adaptor - Stock No.64095, Ford Adaptor - Stock No. 54757 and TechBook Stock No. 59237 are available separately. Display packed.

Not for use on diesel-engined vehicles.

Stock No.	Part No.	Description	Euro each	GBP £ each
54732	FCR	Fault Code Reader	€64.05	£42.70
61837	D6LR61/HD	Battery (PP3)	€5.82	£3.88
59237	TB3472	Fault Code TechBook	€31.74	£21.16

2 AFCR

Adaptor Leads for FCR Fault Code Reader

For reading fault codes in vehicle ECU diagnostic systems. Compatible with the Draper Fault Code Reader Stock No. 54732 and other manufacturers similar products. Use in conjunction with Draper/Haynes Fault Code TechBook Stock No. 59237. Display packed.

Not for use on diesel-engined vehicles.

Stock No.	For Vehicle	Euro each	GBP £ each
54755	Audi	€7.26	£4.84
54756	Citroën/Peugeot	€7.26	£4.84
54757	Ford (5 pin)	€7.26	£4.84
54758	Nissan	€7.26	£4.84
54759	Volkswagen	€7.26	£4.84
64095	GM (16 pin)	€7.26	£4.84

3 OSR/MERC

Mercedes Service Indicator Tool

Expert Quality. Resets the service indicator on Mercedes vehicles. Display carton.

Stock No.	Euro each	GBP £ each
69006	€115.95	£77.30

4 OSR/VOLVO

Volvo Service Indicator Tool

Expert Quality. Resets the service indicator on Volvo vehicles up to 1998. Display carton.

Stock No.	Euro each	GBP £ each
69007	€103.23	£68.82

5 OSR/VAG

Audi/Volkswagen Service Indicator Tool

Expert Quality. Resets the service indicator on VW/Audi vehicles. Display carton.

Stock No.	Euro each	GBP £ each
69008	€100.14	£66.76

6 RK-BMW

BMW Inspection/Service Indicators Reset Key

Resets all BMW service indicators pre and post 1986 (i.e old and new connector types) up to 1998. Moulded case with male and female connectors. Requires no batteries, powered from vehicle. Display packed.

Stock No.	Euro each	GBP £ each
51540	€25.65	£17.10

7 TST1

12V Towing Socket Tester

Expert Quality, for testing 12V seven pin N type plug towing sockets. Six LED indicator lights on module show faults on wiring circuit. Supplied complete with 5M (approx.) of cable. Display packed.

Stock No.	Euro each	GBP £ each
65535	€117.45	£78.30

8 KT1

Key Fob and Remote Control Tester

Expert Quality, checks if key fobs and remote control units are functioning. Suitable for infra red and 418/433 MHz radio frequencies. Fitted with a magnetic strip for attaching to tool boxes or vehicles when range testing. Display carton.

Stock No.	Part No.	Description	Euro each	GBP £ each
68674	KT1	Tester	€36.90	£24.60
61837	D6LR61/HD	Battery (PP3)	€5.82	£3.88

9 LST

'Lambda' or Oxygen Sensor Tester

Expert Quality, for checking 'lambda' or oxygen sensor switch operation on fuel injection management systems. Suitable for testing Zirconia Lambda sensors only (NOT titanium sensors). LED indicator and battery indicator. Supplied complete with heavy duty insulated contact clips and instruction leaflet. Uses PP3 battery (sold separately). Display carton.

Stock No.	Part No.	Description	Euro each	GBP £ each
68283	LST	Tester	€25.65	£17.10
61837	D6LR61/HD	Battery (PP3)	€5.82	£3.88

product information

When using specialized automotive tools ALWAYS refer to the vehicle manufacturer's service or relevant Haynes manual for detailed and concise instruction of usage.

1 RRTK18

18 piece Car Radio Removal Kit

Expert Quality, selection of keys to allow the removal of car radios by garages, emergency services and specialist car audio installers. Contained in plastic wallet for security. Display packed.

Contents:
- pair of cylindrical keys for VW/Audi/Ford vehicles and Blaupunkt/Grundig radios
- BMW pentagon key
- set of four keys for VW/Audi/Mercedes vehicles and Becker radios
- pair of keys for Porsche/Mercedes vehicles and Becker radios
- pair of VW keys
- BMW/Vauxhall 2mm hexagon key
- 2 x Becker pressed steel keys
- pair of Skoda keys
- pair of Blaupunkt wide spaced cylindrical keys

These kits should only be sold to *bona fide* garages, emergency service organisations and specialist car audio installers only.

Stock No.	Euro per kit	GBP £ per kit
89792	€31.29	£20.86

2 DCT3A-PRO

Petrol Engine Compression Test Kit

Expert Quality, for use on most petrol-engined vehicles. Large easy-to-read scale 0-290psi/0-20bar; 330mm of flexible hose fitted with side relief valve; M14/M18mm adaptor; two separate adaptors 10mm and 12mm plus M14 extension adaptor and two thread chasers - M14/M18 and M10/M12. Supplied in blow mould storage case. Display packed.

Stock No.	Euro per kit	GBP £ per kit
68993	€153.90	£102.60

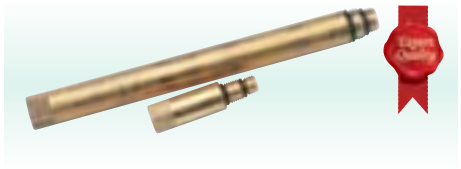
3 DCT1

Petrol Engine Compression Tester

Suitable for use on most petrol-engined vehicles including motorcycles. Comprises 300mm flexible hose, with 14mm and 18mm threaded adaptors, large easy-to-read scale (0-300psi/0-21bar) and air release valve to allow rapid retesting. Display packed.

* Sold loose

Stock No.	Description	Euro each	GBP £ each
37442	Test Kit	€32.22	£21.48
50026	M14 x M10/M12 Adaptor*	€5.01	£3.34



4 LRA

200mm Long Reach Adaptor

Expert Quality, suitable for use in conjunction with petrol engine compression testers i.e. Draper Models DCT1 and DCT3A-PRO and similar products on engines with deep recessed spark plug apertures (i.e. Ford Mondeo, Renault). Thread sizes 14 x 18mm with adaptor 10 x 12mm. Display packed.

Stock No.	Euro each	GBP £ each
51012	€28.83	£19.22

5 387A

Oil Pressure Test Kit

Expert Quality, for the accurate testing of oil pump pressure and also switch and warning indicators. Large easy-to-read scale measuring 0-145psi/0-10bar with 1300mm of flexible hose and female quick-release coupling plus 10 adaptors to suit most modern vehicles. Packed in plastic storage case. Display packed.

Stock No.	Euro per kit	GBP £ per kit
68992	€179.52	£119.68

6 DVG1

Petrol Engine Vacuum and Fuel Pump Tester

Suitable for testing and fault finding the following in petrol engines including:
- Spark misfires
- Poor engine compression
- Weak/rich mixture
- Ignition over advanced/retarded
- Inlet manifold and carburettor air leaks
- Incorrect valve timing
- Poor fuel economy
- Balancing carburettors
- Turbo boost gauge
- Fuel pump testing

Display packed.

Stock No.	Euro each	GBP £ each
59075	€17.46	£11.64

7 VAC1A

Vacuum Test Kit

Expert Quality, designed to help, locate and identify faults on vehicles. Applications include fuel, ignition, ignition transmission, air conditioning, fuel lines, emissions, vacuum brake and clutch bleeding. Diecast body with gauge and accessory kit. Easily dismantled for cleaning. Supplied in blow mould case with display sleeve.

Contents:
- Hose end cones: 4 x small; 2 x medium; 1 x large
- Bleed nipple adaptors: 1 each of small, medium and large
- Gun cones: x 2
- Hose adaptor
- Suction cup 32mm diameter
- Reservoir 120ml
- Extension tubes: x 9

Specification:

Piston stroke volume ... 1 cubic inch
Range ... 0 - 76cm Hg of vacuum

Stock No.	Euro per kit	GBP £ per kit
68714	€94.68	£63.12

product information

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Prices are list, each and exclude VAT.

1 376A

Diesel Engine Compression Testing Kit

Allows the compression of a diesel engine (direct or indirect fuel injection) to be tested by cranking or running. Small profile for speed. Pressure release for repetitive tests. Display packed in blow mould case.

Contents:
- Dual reading 80mm diameter scale measuring 0-1000psi/ 0-70bar, with 355mm of flexible hose, side air release valve and female quick release coupling (to BS)
- 5 x glowplug adaptors: M10x1.25 (2), M10x1.0, M12x1.25, M14x1.25 and M20x1.5
- 4 x injector adaptors: M20x1.5, M24x2.0, Stanadyne D1 type
- 90° elbow
- replacement seal and washer set
- 25mm clamp plate

Stock No.	Euro per kit	GBP £ per kit
65146	€279.45	£186.30

2 4495

GM (Vauxhall/Opel) Diesel Engine Setting and Locking Pins

Expert Quality, for flywheel and crankshaft TDC setting. For use on X17DTL 1.7 diesel engines. Kit comprises TDC plate and locking pins. Anodized finish for corrosion protection. Display packed.

Stock No.	Euro each	GBP £ each
66238	€30.48	£20.32

3 4494

Ford Diesel Engine Camshaft Setting/Locking Plate

Expert Quality, for use on 1.8 diesel engines fitted in Fiesta 1.8D, Escort 1.8D/1.8TD and Mondeo 1.8TD vehicles. Anodized finish for corrosion protection. Display packed.

Stock No.	Euro each	GBP £ each
66237	€9.63	£6.42

4 CLT-GM

GM (Vauxhall/Opel) Diesel Engine Camshaft Locking Tool

Expert Quality, allows camshaft alignment to be set without altering TDC position. For use on mark I/II 1.6 and 1.7 OHC diesel engines fitted to GM (Vauxhall/Opel) Corsa (Nova), Astra/Belmont (Kadett) and Vectra (Cavalier). Display packed.

Stock No.	Euro each	GBP £ each
52578	€20.07	£13.38

5 CLT5

Volkswagen Diesel Engine Crankshaft Locking Tool

Expert Quality, for locking crankshafts on Lupo 3L 1.2TDI, Lupo 1.4TDI, Polo 1.4TDI, Golf 1.9TDI, Bora 1.9TDI and Passat 1.9TDI. diesel engines. Display packed

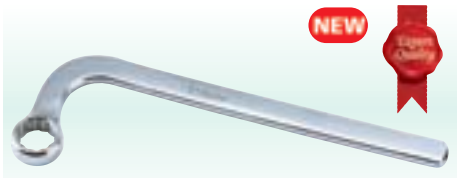
Stock No.	Euro Each	GBP £ each
71204	€17.10	£11.40

6 DTK-FORD

7 piece Ford Diesel Engine Injection Timing Kit

Expert Quality, for use on Ford 1.6 and 1.8 diesel injection engines. Kit is manufactured from mild steel and chemically blacked. Display packed in handy plastic case.

Stock No.	Euro per kit	GBP £ per kit
52576	€24.06	£16.04



7 DIS

13mm Cranked Diesel Injection Spanner

Expert Quality. 13mm bi-hexagon single-ended spanner cranked at 90°. Manufactured from chrome vanadium steel hardened and tempered. Sold loose.

Stock No.	Length	Euro each	GBP £ each
40138	200m	€14.07	£9.38

8 CLT3

GM (Vauxhall/Opel) and Saab Diesel and Petrol Engine Camshaft Locking Tool

Expert Quality, for locking single camshafts on GM (Vauxhall/Opel) and Isuzu vehicles as below. Manufactured from anodized aluminium. Display packed.

Petrol engined vehicles: GM (Vauxhall/Opel) OHC 1.2, 1.4, 1.6, 1.8 & 2.0L, Saab 900 2.5L V6 & 9000 3.0L V6

Diesel engined vehicles: GM (Vauxhall/Opel) OHC 1.6 & 1.7L, Isuzu 1.5 & 1.7L

Stock No.	Euro each	GBP £ each
69934	€21.66	£14.44

9 FWHT1

GM (Vauxhall/Opel) and Isuzu Diesel and Petrol Engine Flywheel Holding Tool

Expert Quality, for holding flywheels on the GM (Vauxhall/Opel) and Isuzu vehicles as below. Display packed.

Petrol engined vehicles: GM (Vauxhall/Opel) OHC 1.2, 1.4, 1.6, 1.8 & 2.0L

Diesel engined vehicles: GM (Vauxhall/Opel) OHC 1.6 & 1.7D; Isuzu 1.5 & 1.7D

Stock No.	Euro each	GBP £ each
71173	€5.34	£3.56

10 CLFH/KIT

8 piece Diesel and Petrol Engine Camshaft/Flywheel Locking/Holding Kit

Expert Quality, comprehensive kit for locking or holding camshafts and flywheels on many GM (Vauxhall/Opel), Isuzu, Rover, Citroën, Peugeot, Saab and Volkswagen petrol and diesel vehicles. Packed in blow mould carrying case and display sleeve.

Stock No.	Euro per kit	GBP £ per kit
71189	€126.78	£84.52

1 CLT1

GM (Vauxhall/Opel) Camshaft Locking Tool

Expert Quality, for locking twin camshafts on GM (Vauxhall/Opel) Ecotec 1.4 and 1.6L 16 valve petrol engines. Manufactured from anodized aluminium. Display packed

Stock No.	Euro each	GBP £ each
69928	€21.66	£14.44

2 CLT2

GM (Vauxhall/Opel) Camshaft Locking Tool

Expert Quality, for locking single camshafts on GM (Vauxhall/Opel) Ecotec 1.8 and 2.0L 16 valve petrol engines. Manufactured from anodized aluminium. Display packed.

Stock No.	Euro each	GBP £ each
69929	€21.66	£14.44

3 CLT4

GM (Vauxhall/Opel) and Saab Camshaft Locking Tool

Expert Quality, for locking single camshafts on GM (Vauxhall/Opel) Cavalier/Calibra 2.5L, Vectra 2.5L, Omega 2.5 and 3.0L, Frontera/Sintra 3.0L, Saab 900 2.5L, and 9000 3.0L V6 petrol engines. Manufactured from anodized aluminium. Display packed.

Stock No.	Euro each	GBP £ each
69935	€21.66	£14.44

4 CLT-GM2

GM (Vauxhall/Opel) Twin Cam Locking Tool

For locking twin camshafts on GM (Vauxhall/Opel) Ecotec 1.8, 2.0 and 2.2L 16 valve engines fitted to Astra, Cavalier, Calibra, Vectra, Omega, Sintra and Frontera models. Manufactured from tough nylon. Display packed.

Stock No.	Euro each	GBP £ each
61276	€6.39	£4.26

5 CLT-GM3

GM (Vauxhall/Opel) Camshaft Locking Tool

For locking single camshafts on GM (Vauxhall/Opel) Ecotec 1.4 and 1.6L 16 valve petrol engines fitted to Astra, Corsa, Tigra and Vectra models when replacing components. Manufactured from tough nylon. Display packed.

Stock No.	Euro each	GBP £ each
61277	€6.51	£4.34

6 CLT-K16

Rover Group Camshaft Locking Tool

Locks camshaft when changing cam belts etc. For use with Rover Group Metro 1.4 (100 Series) GTa, GTi May 1990 on; Rover 214 16 valve Si, SLi, GSi Oct. 1989 on; Rover 414 16 valve Si, SLi, GSi March 1990 on. Manufactured from anodized aluminium. Display packed.

Stock No.	Euro each	GBP £ each
52306	€4.11	£2.74

7 DTK-MULTI1

13 piece Diesel and Petrol Engine Timing Kit

For use on Audi, Citroën, Peugeot, Volkswagen and Volvo petrol and diesel engined cars and light commercial vehicles. Manufactured from mild steel with plated finish. Display packed in blow mould storage case.

Stock No.	Euro per kit	GBP £ per kit
57629	€26.82	£17.88

8 SL/KIT1

Ford/Mazda Camshaft Setting/Locking Kit

For setting the camshaft on the following: Ford 1.6, 1.8 and 2.0 twin cam 16 valve petrol Zetec SE engines; Ford Fiesta and Puma 1.25, 1.4 Zetec SE (1995 onwards) engines and Mazda 121 and 1.25 models. Comprises setting and locking plate and camshaft TDC location pin. Display packed.

Stock No.	Length	Euro per kit	GBP £ per kit
61262	210mm	€8.07	£5.38

9 4493A

Ford Camshaft Holding and Alignment Tool

Expert Quality, suitable for use on Ford Zeta and Zetec engines. The holding tool is designed to hold and manipulate the cam drive pulley. The aligning tool is used in conjunction with the holder to align the two camshafts with each other. The pulley holder fits positively into the camshaft spokes enabling it to move accurately for alignment and tension, holding it later for bolt tightening. Display carton.

Stock No.	Euro each	GBP £ each
63397	€24.06	£16.04

SPECIALIST AUTOMOTIVE TOOL APPLICATION GUIDE

- A handy pocket sized guide designed for the quick referencing of Draper specialist automotive tools to vehicle manufacturer/model and application.
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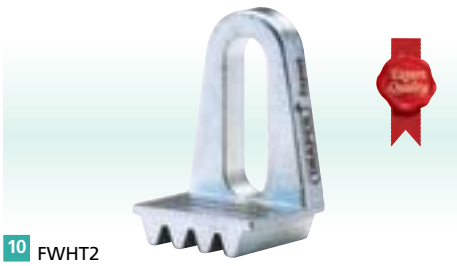

10 FWHT2

Flywheel Holding Tool

Expert Quality, for holding flywheels on popular Citroën, Fiat, FSO, LDV and Peugeot vehicles. Display packed.

Stock No.	Euro each	GBP £ each
71174	€15.24	£10.16

product information

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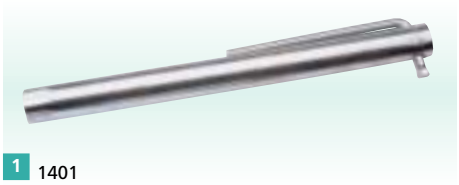
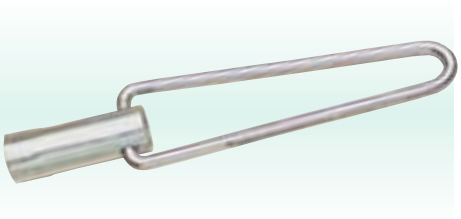


1 1401

Long Reach Spark Plug Wrenches

A tubular carbon steel zinc plated wrench 300mm long, designed for use with spark plugs which are deep set into engine blocks. Socket end has rubber insert for spark plug insulator protection and retention. Supplied complete with integral tommy bar. Display packed.

Stock No.	Plug Size	Euro each	GBP £ each
12242	10mm	€5.76	£3.84
12243	14mm	€5.76	£3.84

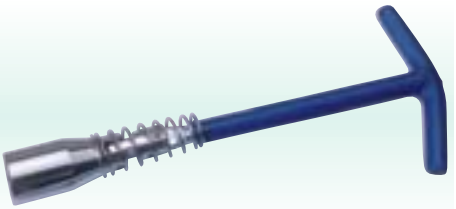


2

Spark Plug Wrenches

Plated steel box end wrenches with swivel handle and zinc plated finish. Display packed.

Stock No.	Part No.	Plug Size	Euro each	GBP £ each
07111	S154	10mm	€3.72	£2.48
07129	S155	14mm	€4.05	£2.70



3 1402

Spark Plug Wrenches

Swivel wrenches with plastic coated T handle. Socket forged steel hardened, tempered and chrome plated with rubber insert for spark plug insulator protection and retention. Display packed.

Stock No.	Plug Size	Euro each	GBP £ each
13867	10mm	€5.22	£3.48
13868	14mm	€5.22	£3.48

4 4862

Spark Plug Cleaning Brush

Compact brush with dense brass fill in wooden stock. Ideal for electrical terminals and spark plug cleaning. Display packed.

Stock No.	Euro each	GBP £ each
13157	€1.89	£1.26

5 SPBP

230mm Spark Plug Boot Pliers

Heavy duty pattern, designed to remove spark plug boots without pulling the plug lead from its clip. Angled nose gives easier access to plug boot. Display packed.

Stock No.	Euro each	GBP £ each
54504	€15.51	£10.34

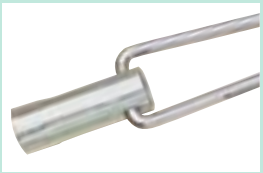
norman says

SPARK PLUG WRENCHES - SIZES

To check the correct spark plug wrench the user must go by the spark plug size - 10mm or 14mm, which refers to the size across the threads of the plug.

The size of the hexagon wrench is different from that of the spark plug. The 10mm plug has an "across the flats" wrench size of 16mm - $^{5}/_{8}$" AF with the 14mm plug at 20.8mm - $^{13}/_{16}$" AF.

For a selection of spark plug sockets, see Section 1 Socketry under $^{3}/_{8}$" or $^{1}/_{2}$" square drive pages.



norman says

The spark plug size, i.e 10, 12 or 14mm refers to the thread diameter of the spark plug.

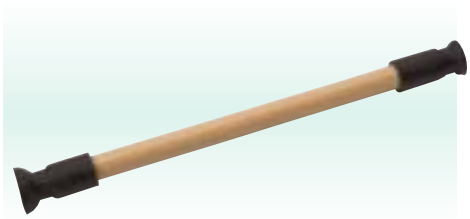
10/12/14mm

6 STETH1

Mechanics Stethoscope

Suitable for detecting faults in engines, bearings and other moving parts. Supplied complete with two probes 290mm long. Display packed.

Stock No.	Euro each	GBP £ each
54503	€15.36	£10.24



7 9902

240mm Valve Grinder

Recycled PVC shaft with 19mm and 22mm diameter rubber suction ends. Display packed.

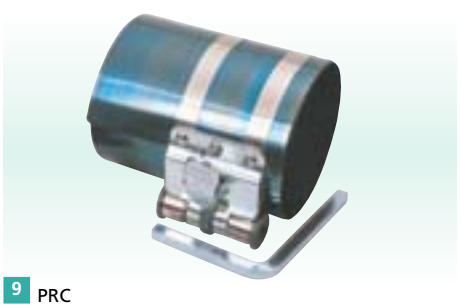
Stock No.	Euro each	GBP £ each
10409	€1.38	£0.92

8 9902/P

Valve Grinding Kit

Recycled PVC shaft 240mm long with 19mm and 22mm diameter rubber suction ends and pots of genuine carborundum fine and coarse paste. Display packed.

Stock No.	Euro per kit	GBP £ per kit
72891	€11.04	£7.36

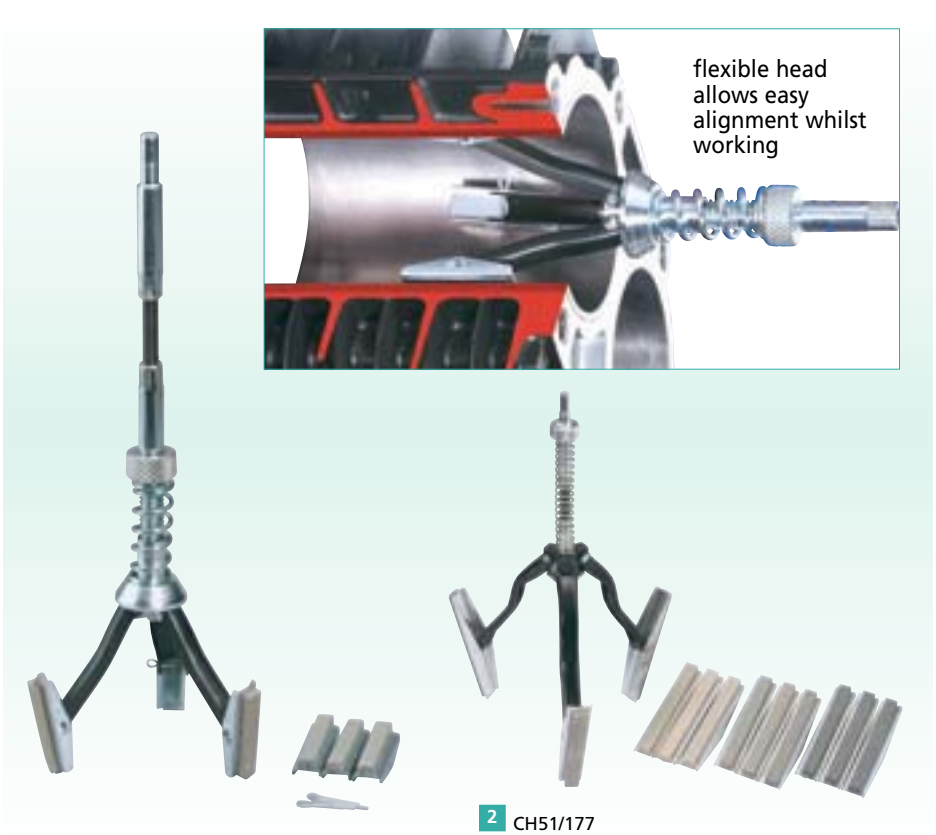


9 PRC

Piston Ring Compressors

Spring steel with steel adjusting key. Display packed.

Stock No.	Capacity	Depth	Euro each	GBP £ each
51844	45-75mm	50mm	€12.48	£8.32
51845	60-100mm	75mm	€16.44	£10.96
51846	75-140mm	75mm	€18.96	£12.64
51847	70-150mm	100mm	€20.58	£13.72



1 CH25/57

25-57mm Cylinder Hone

For use on small bore cylinders i.e. motor cycles etc. with capacities between 25 and 57mm. The flexible drive shaft allows easy alignment whilst working, with the honing pressure adjustable to suit the particular application. Suitable for use with an electric or air drill, the maximum working speed is 2400rpm. Overall length 210mm. Supplied complete with 220 grit stone set, which are also available separately - Stock No. 56247. Display packed.

Stock No.	Description	Euro each	GBP £ each
56244	Cylinder Hone	€12.03	£8.02
56247	Stone Set 220 grit	€6.42	£4.28

2 CH51/177

51-177mm Cylinder Hone

For use on cylinders with capacities between 51 and 177mm i.e cars, vans, trucks, marine and industrial applications. The flexible drive shaft allows easy alignment whilst working, with the honing pressure adjustable to suit the particular application. Suitable for use with an electric or air drill, the maximum working speed is 2400rpm. Supplied complete with 180 grit stone set, which is also available separately as are other grades. Overall length 300mm. Display packed.

Stock No.	Description	Euro each	GBP £ each
56246	Cylinder Hone	€33.78	£22.52
56248	Stone Set - 280 grit	€13.92	£9.28
56249	Stone Set - 180 grit	€13.92	£9.28
56250	Stone Set - 120 grit	€13.92	£9.28

3 CHS2

2 piece Cylinder Head Stand Set

Expert Quality, securely supports cylinder heads for most forms of service and repair applications. Heavy duty mild steel with zinc plated finish. Display packed.

Stock No.	Euro per set	GBP £ per set
89767	€28.98	£19.32

4

Valve Spring Compressors

Expert Quality, with plastic coated locking handle to keep valve springs positively compressed during work. Manufactured from selected steel and zinc plated. Display packed.

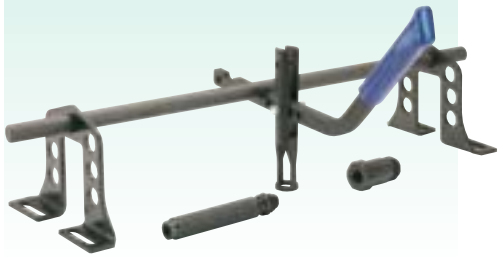
Stock No.	Part No.	Capacity	Throat	Euro each	GBP £ each
13890	VSC1	75-175mm	150mm	€39.03	£26.02
13892	VSC3	60-155mm	160mm	€46.05	£30.70

5 VSC4

Universal Valve Spring Compressor

Expert Quality, plastic coated locking handles to keep valve springs positively compressed during work. For use on multi-valve and diesel engines with deep seated valves and on many OHC/OHV petrol/diesel engines. Unique dual cam action provides choice of operation either above or below valve. Display packed.

Stock No.	Capacity	Throat	Euro each	GBP £ each
26967	55 - 175mm	165mm	€82.14	£54.76



6 VSC/UNI

Universal Valve Spring Compressor

Suitable for OHC and OHV petrol and diesel engines . Allows valve guide rubbers to be removed/replaced without the need to remove the head. Supplied complete with valve holder, quick-release air couplings and valve stem installer/remover. Packed in handy case with display sleeve.

Stock No.	Euro each	GBP £ each
59085	€135.30	£90.20

7 373

GM (Vauxhall/Opel) Valve Play Compensator and Rocker Arm Remover

Expert Quality, allows easy removal of the rocker arm and valve play compensator (hydraulic tappets) on GM (Vauxhall/Opel) OHC engines without the need to remove the camshaft. Display packed.

Stock No.	Euro each	GBP £ each
33607	€17.16	£11.44

Prices are list, each and exclude VAT.

1 600C

20 Blade Metric Feeler Gauge Set

Expert Quality, 100mm long taper blades, hardened and polished for long accurate life. Each blade is marked with its size and folds into a polished steel case with thumbscrew. Display packed.

Blade sizes:
20 metric blades size: 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95 and 1.0mm.

Stock No.	Euro per set	GBP £ per set
73996	€7.65	£5.10

2 26F

26 Blade Imperial Feeler Gauge Set

Expert Quality, 100mm long taper blades, hardened and polished for long accurate life. Each blade is marked with its size and folds into a polished steel case with thumbscrew. Display packed.

Blade sizes:
26 imperial blades size: 0.0015, 0.002, 0.0025, 0.003, 0.004, 0.005, 0.006, 0.007, 0.008, 0.009, 0.010, 0.011, 0.012, 0.013, 0.015, 0.016, 0.017, 0.018, 0.019, 0.020, 0.021, 0.021, 0.022, 0.023. 0.024 and 0.025".

Stock No.	Euro per set	GBP £ per set
10286	€10.65	£7.10

3 4620

32 Blade Dual Reading Combination Feeler Gauge Set

Expert Quality, one piece combination gauge with 32 dual marked blades 95mm long, hardened for long accurate life. Each blade is marked with its size and folds into a polished steel case with thumbscrew. Display packed.

Metric - mm
0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.13, 0.15, 0.18, 0.20, 0.23, 0.25, 0.28, 0.30, 0.33, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.63, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90 and 1.00.
Imperial - inch
0.001, 0.0015, 0.002, 0.0025, 0.0028, 0.003, 0.0035, 0.004, 0.005, 0.006, 0.007, 0.008, 0.009, 0.010, 0.011, 0.012, 0.013, 0.014, 0.015, 0.016, 0.018, 0.020, 0.022, 0.024, 0.025, 0.026, 0.028, 0.030, 0.032, 0.034, 0.035 and 0.040".

Stock No.	Euro per set	GBP £ per set
19613	€19.62	£13.08

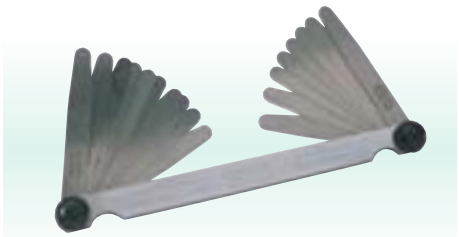
5 4616

10 Blade Imperial Feeler Gauge Set

100mm long taper blades. Each blade is marked with its size and folds into a plated steel case with thumbscrew. Display packed.

Blade sizes:
Imperial: 0.0015, 0.002, 0.003, 0.004, 0.006, 0.008, 0.010, 0.012, 0.015, 0.025"

Stock No.	Euro per set	GBP £ per set
73970	€3.21	£2.14



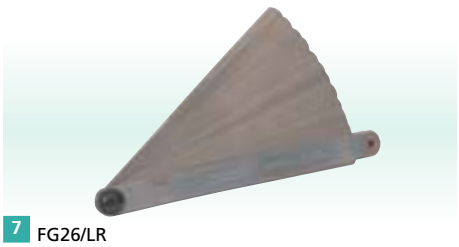
6 4618

18 Blade Combination Feeler Gauge Set

Combination gauge with eight metric and ten imperial 75mm long blades hardened and polished for long accurate life. Each blade is marked with its size and folds into a plated steel case with thumbscrew. Display packed.

Blade sizes:
8 metric blades size: 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40 and 0.50mm
10 imperial blades size: 0.0015, 0.002, 0.003, 0.004, 0.006, 0.008, 0.010, 0.012, 0.015 and 0.025".

Stock No.	Euro per set	GBP £ per set
10094	€5.37	£3.58



7 FG26/LR

Dual Reading Long Blade Combination Feeler Gauge Set

One piece combination gauge with 26 dual marked blades 150mm long, hardened for long accurate life. Each blade is marked with its size and folds into a case with thumbscrew. This gauge is particularly useful for use on agricultural and heavy commercial engines.

Metric - mm
0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.13, 0.15, 0.18, 0.20, 0.23, 0.25, 0.28, 0.30, 0.33, 0.35, 0.38, 0.40, 0.45, 0.50, 0.60, 0.63, 0.65 and 0.70mm.
Imperial - inch
0.0012, 0.0015, 0.002, 0.0025, 0.0028, 0.003, 0.0035, 0.004, 0.005, 0.006, 0.007, 0.008, 0.009, 0.010, 0.011, 0.012, 0.013, 0.014, 0.015, 0.016, 0.018, 0.020, 0.024, 0.025, 0.026, and 0.028".

Stock No.	Euro per set	GBP £ per set
52339	€11.22	£7.48

8 VTG12

12 Blade Combination Tappet Gauge Set

Combination gauge for the setting of valve tappets on motorcycles, mowers, cars, vans, etc. The dual marked blades are 95mm long and offset to give improved access to the engine and are hardened and polished for long accurate life. Each blade is marked with its size and folds into a polished steel case with thumbscrew. Display packed.

Metric - mm
0.203, 0.254, 0.305, 0.330, 0.356, 0.381, 0.406, 0.457, 0.483, 0.508, 0.635 and 0.660mm.
Imperial - inch
0.008, 0.010, 0.012, 0.013, 0.014, 0.015, 0.016, 0.018, 0.019, 0.020, 0.025, and 0.026".

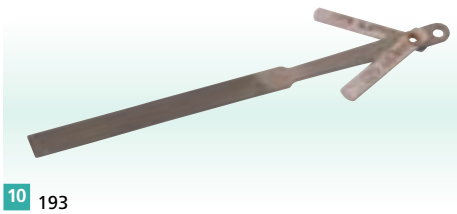
Stock No.	Euro per set	GBP £ per set
19577	€8.04	£5.36

9 22TF

Metric Thread Restoring File

For restoring and cleaning internal or external threads. Thread pitch: 080-100, 175-200, 125-150 and 250-300. Packed in clear plastic tube.

Stock No.	Euro each	GBP £ each
68703	€33.36	£22.24

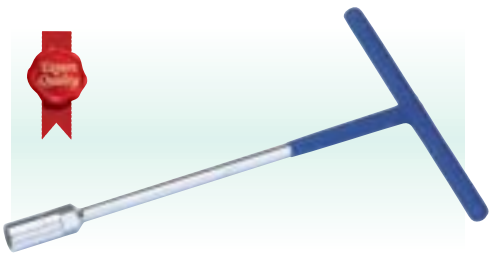


10 193

90mm Ignition File and Spark Plug Gauge

File with points and spark plug gauges fitted with thicknesses of 0.381mm (0.015") and 0.625mm (0.025") respectively. Display packed.

Stock No.	Euro each	GBP £ each
33554	€2.67	£1.78

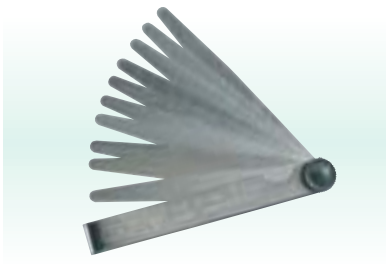


11 THS/M

T-Handle Metric Socket Wrenches

Expert Quality, with sockets manufactured from chrome vanadium steel hardened and tempered with carbon steel PVC dipped handles. Display packed.

Stock No.	Size	Euro each	GBP £ each
72791	8mm	€7.26	£4.84
72792	10mm	€7.44	£4.96
72793	12mm	€7.89	£5.26
72794	13mm	€8.01	£5.34
72795	14mm	€8.10	£5.40
72796	17mm	€9.51	£6.34



4 4617

10 Blade Metric Feeler Gauge Set

100mm long taper blades. Each blade is marked with its size and folds into a plated steel case with thumbscrew. Display packed.

Blade sizes:
Metric: 0.05, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, and 0.80mm

Stock No.	Euro per set	GBP £ per set
73988	€3.21	£2.14

1 MH61PRO

61 piece 3/8, 1/2" Sq. Dr. Socket and Bit Set

Expert Quality, comprises sockets, 10mm and 14mm insert bits. All are manufactured from the highest quality hardened and tempered steels. Packed in blow mould carrying case and display sleeve.

Contents:
- bit holder 10mm hexagon x 3/8" sq. drive
- bit holder 10mm hexagon x 1/2" sq. drive
- bit holder 14mm hexagon x 1/2" sq. drive
- 8 Draper TX-STAR Tamperproof bits: T20, T25, T27, T30, T40, T45, T50 and T55 x 30mm long
- 2 Draper TX-STAR Tamperproof bits: T60 and T70 x 50mm long
- 8 Draper TX-STAR bits: T20, T25, T27, T30, T40, T45, T50 and T55 x 75mm long
- 2 Draper TX-STAR bits: T60 and T70 x 78mm long
- 5 XZN spline bits: 5, 6, 8, 10 and 12mm x 30mm long
- 4 XZN spline bits: 6, 8, 10 and 12mm x 75mm long
- 7 hexagonal bits: 4, 5, 6, 7, 8, 10 and 12 x 30mm long
- 5 hexagonal bits: 5, 6, 7, 8 and 10mm x 75mm long
- 2 plain slot bits: 8 and 10mm x 30mm long
- 3 PZ TYPE bits: No.1, 2 and 3 x 30mm long
- 5 Draper TX-STAR 1/4" sq .dr. sockets size: E4, E5, E6, E7 and E8
- 4 Draper TX-STAR 3/8" sq. dr. sockets size: E10, E11, E12 and E14
- 3 Draper TX-STAR 1/2" sq. dr. sockets size: E16, E18 and E20

PZ TYPE insert bits are compatible with *Pozidriv®/Supadriv® fixing systems.
Draper TX-STAR insert bits are compatible with †Torx fixing systems
*Pozidriv®/Supadriv® are registered trademarks of Trifast Plc.
†Torx is the registered trademark of Camcar/Textron Inc.

Stock No.	Euro per set	GBP £ per set
59985	€107.55	£71.70

2 MH35SC

35 piece 3/8, 1/2" Sq. Dr. Mechanics Bit Set

Expert Quality, insert bits manufactured from good quality steels, hardened and tempered with chemically blacked finish. Bit holders made from chrome vanadium steel hardened, tempered and chrome plated. Packed in steel case and display carton.

Contents:
- bit holder 10mm hexagon x 3/8" sq. drive
- bit holder 10mm hexagon x 1/2" sq. drive
- bit holder 14mm hexagon x 1/2" sq. drive
- 7 Draper TX-STAR bits: T20, T25, T30, T40, T45, T50 and T55 x 10 x 30mm long
- 7 Draper TX-STAR bits: T20, T25, T30, T40, T45, T50 and T55 x 10 x 70mm long
- 2 Draper TX-STAR bits T60 and T70 x 14 x 50mm long
- 2 Draper TX-STAR bits T60 and T70 x 14 x 75mm long
- 7 hexagonal bits: 4, 5, 6, 7, 8, 10 and 12mm 10 x 30mm long
- 7 hexagonal bits: 4, 5, 6, 7, 8, 10 and 12mm 10 x 75mm long

Draper TX-STAR insert bits are compatible with †Torx fixing systems.
†Torx is the registered trademark of Camcar/Textron Inc.

Stock No.	Euro per set	GBP £ per set
33614	€57.63	£38.42

3 MH40/SC

40 piece 3/8, 1/2" Sq. Dr. Mechanics Bit Set

Expert Quality, insert bits manufactured from silicon steel, hardened and tempered with shot blasted finish. Bit holders made from chrome vanadium steel hardened, tempered and chrome plated. Packed in steel case and display carton.

Contents:
- bit holder 10mm hexagon x 3/8" sq. drive
- bit holder 10mm hexagon x 1/2" sq. drive
- 7 Draper TX-STAR bits: T20, T25, T30, T40, T45, T50 and T55 x 30mm long
- 7 Draper TX-STAR bits: T20, T25, T30, T40, T45, T50 and T55 x 75mm long
- 5 XZN spline bits: 5, 6, 8, 10 and 12mm x 30mm long
- 5 XZN spline bits: 5, 6, 8, 10 and 12mm x 75mm long
- 7 hexagonal bits: 4, 5, 6, 7, 8, 10 and 12 x 30mm long
- 7 hexagonal bits: 4, 5, 6, 7, 8, 10 and 12mm x 75mm long

Draper TX-STAR insert bits are compatible with †Torx fixing systems.
†Torx is the registered trademark of Camcar/Textron Inc.

Stock No.	Euro per set	GBP £ per set
21932	€48.15	£32.10

4 TX5T/7

7 piece 1/4" Sq. Dr. Five Lobe Draper TX-STAR Tamperproof Socket Bit Set

Draper TX-STAR insert bits are compatible with †Torx fixing systems

Expert Quality, sockets with insert bits. Sockets manufactured from chrome vanadium steel hardened, tempered and chrome plated. The bits are made from S2 silicon steel hardened and tempered with sand blast finish. Overall length of bit and socket 37mm. Supplied on socket rail and display packed.

Contents: TX10, TX15, TX20, TX25, TX27, TX30 and TX40

These bits are NOT compatible with conventional six sided Draper TX-Star fixings.

†Torx is the registered trademark of Camcar/Textron Inc.

Stock No.	Rail Length	Euro per set	GBP £ per set
71394	125mm	€14.46	£9.64

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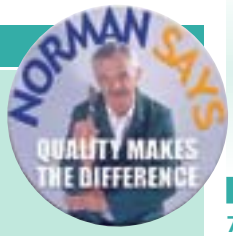


WHAT ARE RIBE™ FIXINGS?

Developed in Germany in the early part of the 20th century, RIBE™ fixings are used in the automotive and aerospace industries and in power tool construction.

These fixings provide extra mechanical strength to meet exceptional manufacturing requirements.

Draper Tools has a selection of RIBE™ bits and keys to undo these fixings.

5 RIBE/7/SET

7 piece Set of 3/8, 1/2" Sq. Dr. Ribe™ Socket Bits on Socket Rail

Expert Quality, suitable for use on Fiat, Lancia, Alfa-Romeo and many other applications. Sockets manufactured from chrome vanadium steel hardened, tempered and chrome plated. The M6-M10 bits are made from S2 steel and the M12-M14 bits from 6150H steel hardened and tempered both with shot blast finishes. Supplied on socket rail. Display packed.

Contents:
3/8" sq. drive: M6, M7, M8 and M10 x 100mm long
1/2" sq. drive: M12, M13 and M14 x 100mm long

Stock No.	Euro per set	GBP £ per set
67065	€28.17	£18.78

6 RIBE/22/SET

22 piece 3/8, 1/2" Sq. Dr. Ribe™ Socket Bit Set

Expert Quality, suitable for use on Fiat, Lancia, Alfa-Romeo and many other applications. Sockets manufactured from chrome vanadium steel hardened, tempered and chrome plated. Bits are made from S2 steel hardened and tempered. Packed in blow mould case with display sleeve.

Contents:
- bit holder 10mm x 3/8" sq. drive
- bit holder 10mm x 1/2" sq. drive
- 10 Ribe™ bits: M4, M5, M6, M7, M8, M9, M10. M12, M13 and M14 x 30mm long
- 10 Ribe™ bits: M4, M5, M6, M7, M8, M9, M10. M12, M13 and M14 x 75mm long

Stock No.	Euro per set	GBP £ per set
72088	€47.97	£31.98

7 RIBE/7K/SET

7 piece Ribe™ Key Set

Expert Quality, manufactured from SNCM steel hardened and tempered with satin chrome finish. Held in plastic storage holder. Display packed.

Contents: M4, M5, M6, M7, M8, M9 and M10

Stock No.	Euro per set	GBP £ per set
73047	€20.88	£13.92

Prices are list, each and exclude VAT.

1

Nut Splitters

For the safe removal of corroded or damaged nuts without damaging bolt threads. Forged medium carbon steel frame with enclosed head and chrome plated finish. Threaded splitting pin with ground cutter manufactured from chrome molybdenum steel, hardened and tempered. Display packed.

Stock No.	Part No.	Capacity	Length	Euro each	GBP £ each
10913	NC912	9-12mm	80mm	€7.74	£5.16
10915	NC1216	12-16mm	105mm	€8.67	£5.78
10916	NC1622	16-22mm	130mm	€11.61	£7.74

2 NC922

3 piece Nut Splitter Set

For the safe removal of corroded or damaged nuts without damaging bolt threads. Drop forged steel body hardened and tempered with plated finish. Threaded splitting pin manufactured from chrome molybdenum steel hardened and tempered with chemically blacked finish. Capacities: 9 - 12mm, 12 - 16mm and 16 - 22mm. Display packed.

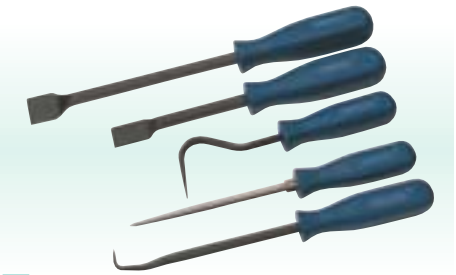
Stock No.	Euro per set	GBP £ per set
55108	€24.06	£16.04

3 178A

Gasket Scraper

Manufactured from carbon steel hardened, tempered and satin chrome finish with shot blast scraper end. For cleaning cylinder heads, removing old sealants and carbon, etc. Display packed.

Stock No.	Euro each	GBP £ each
36923	€7.56	£5.04



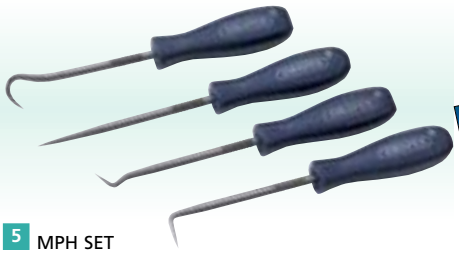
4 5SR SET

5 piece Scraper and Remover Set

Suitable for a variety of applications including removing cotter pins, radiator hoses, flaking paint and gaskets. Blades hardened and tempered carbon steel. Display packed.

Contents:
- 2 Multi-purpose scrapers - 210 and 275mm
- Scratch awl - 200mm
- Cotter pin puller - 225mm
- Radiator hose remover - 175mm

Stock No.	Euro per set	GBP £ per set
35100	€27.30	£18.20



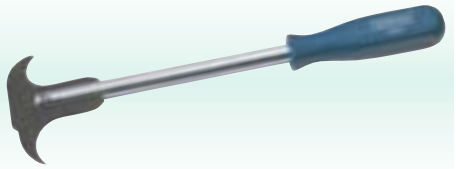
5 MPH SET

4 piece Mini Hook and Pick Set

Designed to ease the removal of 'O' rings, cotter pins, seals and bushes in various automotive and engineering applications. Blades stainless steel hardened and tempered with impact - resistant handles. Display packed.

Contents: Awl, Clevis - pin remover, 'L' and 'V' hooks

Stock No.	Euro per set	GBP £ per set
35099	€11.16	£7.44



6 ORP2

O Ring and Seal Puller

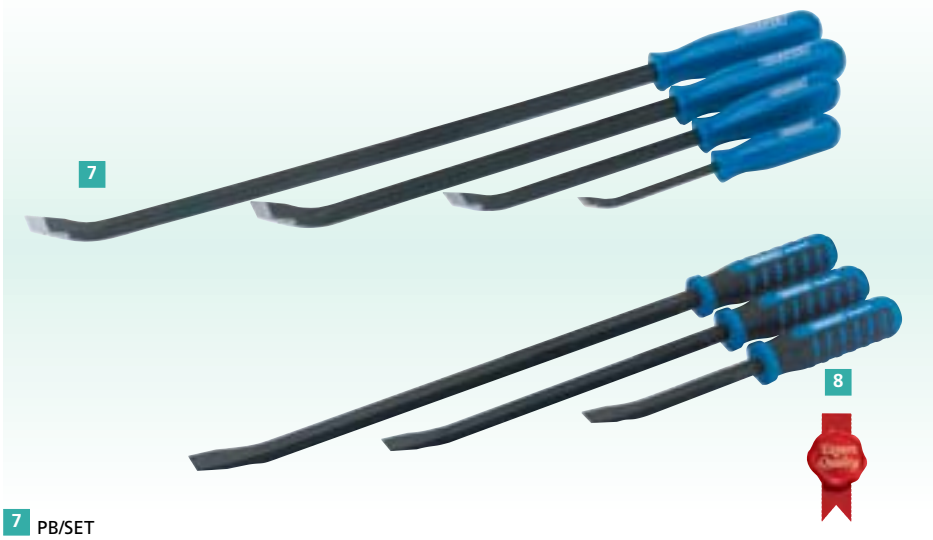
Universal seal puller for use on rubber 'O' rings, oil and grease seals. Particularly useful on commercial vehicle applications. Display packed.

Stock No.	Length	Euro each	GBP £ each
37439	325mm	€7.68	£5.12

SPECIALIST AUTOMOTIVE TOOL APPLICATION GUIDE

- A handy pocket sized guide designed for the quick referencing of Draper specialist automotive tools to vehicle manufacturer/model and application.
- Updated regularly! Ask for our latest edition.

ALSO AVAILABLE ON OUR WEBSITE. Visit... www.draper.co.uk/Pages/Auto.html



7

8

7 PB/SET

4 piece Pry Bar Set

Chemically blacked finish blades with PVC handles. Display packed.

Contents: 200, 300, 450 and 600mm long

Stock No.	Euro per set	GBP £ per set
35396	€22.47	£14.98

8 PB/SET/SG3

3 piece Soft Grip Pry Bar Set

Expert Quality, chemically blacked finish blades with striking caps and impact-resistant soft grip handles. Display packed.

Contents: 300, 450 and 600mm long

Stock No.	Euro per set	GBP £ per set
88636	€36.03	£24.02

Prices are list, each and exclude VAT.

1 MPT

Magnetic Parts Bowl

For storage of nuts, bolts, screws, etc. whilst working. Bowl has rubber covered magnetic base for affixing to metal objects such as vehicle bodywork, tool boxes etc. Magnetism transfers to inner surface of bowl to retain small metal parts, nuts, bolts, etc. Sold loose.

Stock No.	Diameter	Euro each	GBP £ each
35384	145mm	€9.39	£6.26

2 MPT/2

Large Magnetic Parts Tray

For storage of nuts, bolts, screws, etc. whilst working. Tray has magnetic base for affixing to metal objects such as vehicle bodywork, tool boxes etc. Magnetism transfers to inner surface of tray to retain small metal parts, nuts, bolts, etc. Sold loose.

Stock No.	Dimensions	Euro each	GBP £ each
56332	230 x 140mm	€12.36	£8.24

3 MPT3

Magnetic Parts Bowl

For storage of nuts, bolts, screws, etc. whilst working. Magnetism transfers to inner surface of bowl to retain small metal parts, nuts, bolts, etc. Display carton.

Stock No.	Diameter	Euro each	GBP £ each
72804	86mm	€13.98	£9.32

4 MPT4

Stainless Steel Magnetic Parts Tray

For storage of nuts, bolts, screws, etc. whilst working. Tray has magnetic base for affixing to metal objects such as vehicle bodywork, tool boxes etc. Magnetism transfers to inner surface of tray to retain small metal parts, nuts, bolts, etc. Display packed.

Stock No.	Dimensions	Euro each	GBP £ each
72805	360 x 160mm	€28.11	£18.74

5 MPT5

Round Magnetic Parts Tray

Handy workshop tray with castors for retaining tools and small metal parts. Has fold down handles to assist picking up. Carton packed.

Stock No.	Dimensions	Euro each	GBP £ each
72812	300mm dia. x 20mm deep	€48.15	£32.10

6 MPT6

Vertical Magnetic Parts Tray

For storage of nuts, bolts, screws, etc. whilst working. Tray has rubber protected magnetic back for affixing to vertical metal objects such as vehicle bodywork, tool boxes etc. with rubber protection bumper on base. Magnetism transfers to inner surface of tray to retain small metal parts, nuts, bolts, etc. Display packed.

Stock No.	Dimensions L x W x H	Euro each	GBP £ each
72825	240 x 115 x 30mm	€22.47	£14.98

7 MPT13

Magnet Holder for Glove/Tissue Boxes

For storage of standard size boxes of latex gloves or tissues up to 145mm wide. Holder has rubber protected magnetic back for affixing to vertical metal objects such as vehicle bodywork, tool boxes etc. Optional hanging holes for fixing in permanent locations. Display packed.

Stock No.	Euro each	GBP £ each
78665	€19.20	£12.80

8 MPT12

Magnetic Holder

For attaching to the side of metal objects using powerful magnets. 50mm diameter. Hook and loop straps for holding different sized tools. Display packed.

Stock No.	Euro each	GBP £ each
72845	€8.01	£5.34

Prices are list, each and exclude VAT.

1 MPU5K

700-1100mm 5kg Telescopic Magnetic Pick Up Tool and Sweep

Expert Quality, extendable handle with twistlock action and three-position head size 300 x 50mm. Will pick up maximum weight of 5kg. Display packed.

Stock No.	Euro each	GBP £ each
40144	€39.12	£26.08

2 5361

560mm Flexible Magnetic Pick-Up Tool

Expert Quality, chrome plated flexible shaft with plastic handle and removable protective cap over magnet. Display packed.

Stock No.	Euro each	GBP £ each
52305	€12.81	£8.54

3 5362

540mm High Power Flexible Magnetic Pick-Up Tool

Expert Quality, chrome plated flexible shaft with plastic handle. Will lift approximately 1.5kg. Display packed.

Stock No.	Euro each	GBP £ each
66198	€15.96	£10.64

4 5360

90-420mm Telescopic Magnetic Pick Up Tool

A fully extendable pick up tool with magnetic end. Ideal for the retrieval of nuts, screws and objects lost in remote places. Display packed.

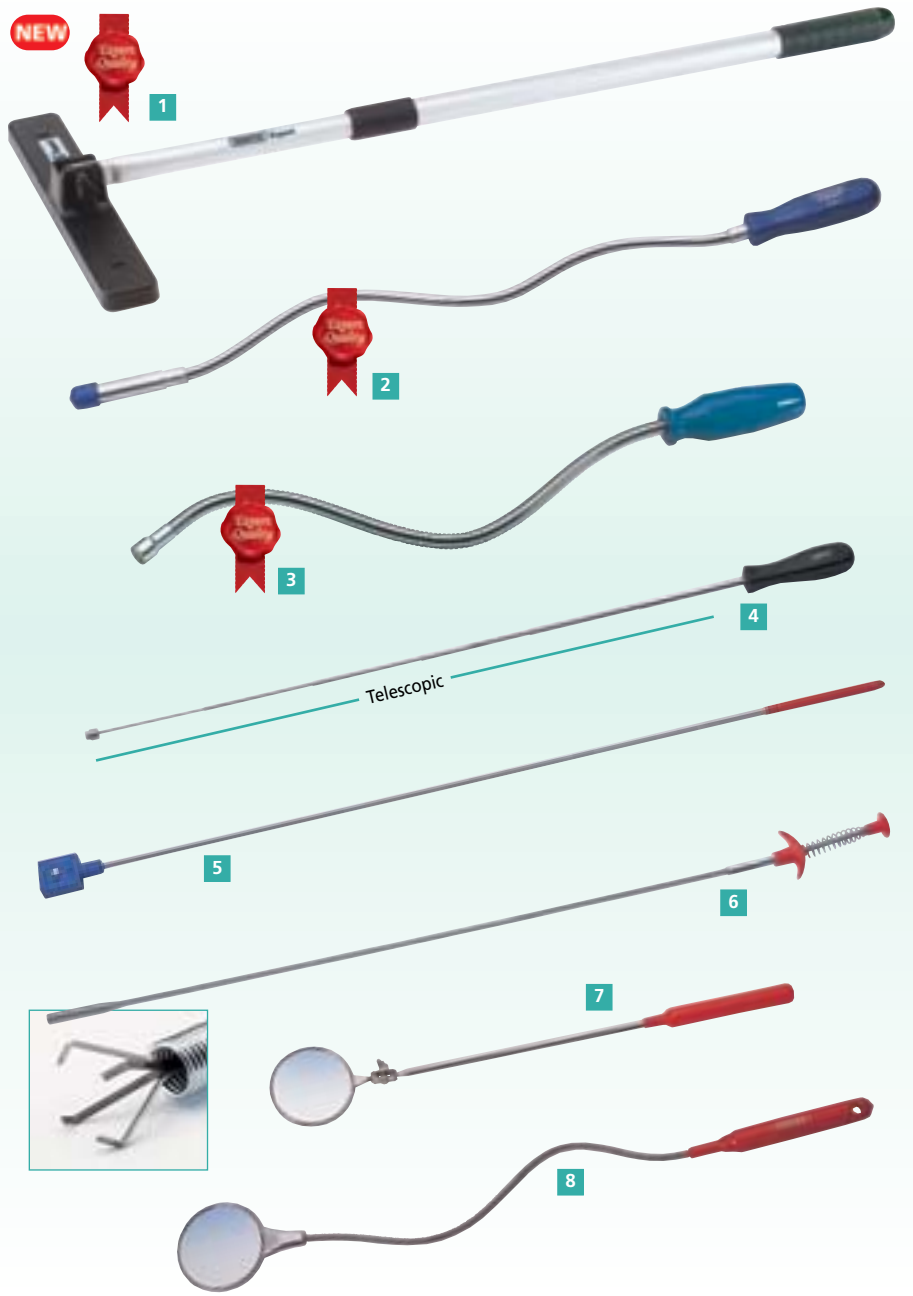
Stock No.	Euro each	GBP £ each
33080	€6.33	£4.22

5 5355

610mm Magnetic Pick-Up Tool

Fully flexible plated stem with plastic grip and powerful magnetic end. Display packed.

Stock No.	Euro each	GBP £ each
10195	€3.21	£2.14



6 5350

610mm Pick-Up Tool

Fully flexible plated stem with claw action pick-up end, controlled from spring-loaded grip. Display packed.

Stock No.	Euro each	GBP £ each
39669	€4.05	£2.70

7 M301

370mm Fixed Shaft Inspection Mirror

Fully flexible head with mirror 55mm diameter to give good visibility in concealed areas. Plated finish with plastic grip. Display packed.

Stock No.	Euro each	GBP £ each
10263	€8.52	£5.68

8 M302

470mm Flexible Shaft Inspection Mirror

Fully flexible shaft and fixed head with mirror 55mm diameter to give good visibility in concealed areas. Plated finish with plastic grip. Display packed.

Stock No.	Euro each	GBP £ each
11954	€9.81	£6.54

9 EXTC

280mm Exhaust Pipe Cutter

Expert Quality, for cutting thin walled exhaust pipes 35-64mm diameter, up to 3mm thickness. The complete cut can be made in just a quarter of a turn making this tool ideal for working in confined spaces under vehicles. Display packed.

Stock No.	Euro each	GBP £ each
40100	€40.68	£27.12

1 OFW3

65-120mm Three Leg Oil Filter Wrench

Expert Quality, ideal for use on car and commercial vehicle oil filters. As wrench is tightened the serrated legs clamp around the filter for easy removal. ⅜" square drive with ⅜" sq. dr./ 19mm - ¾" AF wrench adaptor. Display packed.

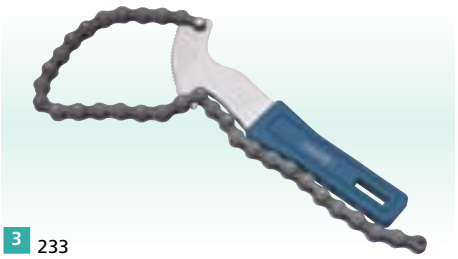
Stock No.	Euro each	GBP £ each
37871	€17.64	£11.76

2 OFW 100

100mm Oil Filter Wrench

A quality wrench manufactured from heavy gauge pressed steel hardened, tempered and matt chrome plated finish. The automatic action clamping ring has a serrated inner surface for secure grip. Fits most oil filters. Display packed.

Stock No.	Euro each	GBP £ each
10784	€8.64	£5.76



3 233

100mm Oil Filter Wrench

With heavy duty chain which gives a positive grip on oil filter during removal. Plastic covered steel leverage handle. Display packed.

Stock No.	Euro each	GBP £ each
77584	€6.78	£4.52

4 255

130mm Oil Filter Wrench

Heavy duty chain with tightening nut which can be operated with a ½" square drive or 24mm wrench. Display packed.

Stock No.	Euro each	GBP £ each
77592	€5.94	£3.96

5 OFW 300

280mm Oil Filter Strap Wrench

Heavy duty webbing strap 1000mm x 38mm with ⅜" x ½" square drive/21mm x 13/16" AF cam for tightening. Cam has plated finish for corrosion protection. Display packed.

Stock No.	Euro each	GBP £ each
56137	€11.67	£7.78

6 256

120mm Oil Filter Strap Wrench

Manufactured from carbon steel, zinc plated, with nylon webbing strap. Can be operated with ½" square drive or 21mm wrench. Display packed.

Stock No.	Euro each	GBP £ each
13771	€6.24	£4.16

7 POD1

12V Portable Oil Extraction Unit

Ideal for extracting oil from motor vehicles/bikes, marine engine. Extracts oil without removal of the drain plug and having to get under vehicle. Easy one person operation. Supplied complete with flexible dipstick hose and 1.5M of flexible hose for oil extraction. The unit is powered by a 12V motor with power supplied by a car cigarette lighter plug with 3M (approx.) of cable. For vehicles without a car cigarette socket there are crocodile clips with a car cigarette lighter plug adaptor. Display carton.

Specification:

Oil extraction rate	...	0.7-1.6L
Reservoir capacity	...	5.2L (approx.)
Weight	...	2kg

Stock No.	Euro each	GBP £ each
73319	€85.17	£56.78

8 9004

53-118mm Self Grip Oil Filter and Multi-Purpose Wrench

Ideal for a variety of automotive and DIY household applications. Adjustable opening with quick release lever. Drop forged chrome vanadium steel jaws hardened and tempered with a nickel plated finish. Display packed.

Stock No.	Euro each	GBP £ each
61247	€13.74	£9.16

9 OE1

Pneumatic Oil Extraction/Brake Bleeding Kit

Expert Quality, kit ideal for one person operation. For the extraction of engine oils from motor vehicles, motor bikes, marine engines, generators etc. without the removal of the oil drain plug. Requires 71-110psi air supply. Supplied complete with 1.4M of anti-kink hose, 4 x siphon hoses and brake bleeding hose/connector. Display carton.

Specification:

Air supply	...	70-110psi (5-8bar)
Av. air consumption	...	180L/min
Reservoir capacity	...	10L
Oil extraction rate	...	2.5L/min
Air inlet size	...	¼" BSP
Vacuum	...	500mm HG (max.)
Weight	...	2.8kg

Stock No.	Euro per kit	GBP £ per kit
73291	€168.75	£112.50

Prices are list, each and exclude VAT.

1 OD36

36L Telescopic Oil Drainer

For use in the workshop for the collection of old or contaminated oil during an oil change. The Oil Drainer is wheeled under the sump plug of the vehicle when on an inspection ramp, the plug is removed and the oil flows by gravity into the plastic reservoir via a filtered funnel 410mm diameter. Screw cap for reservoir. Height adjusts from 760 to 1600mm. Display carton.

WARNING: NOT to be used for corrosive chemicals

Stock No.	Euro each	GBP £ each
65346	€141.27	£94.18

2

Oil Drainers

Expert Quality, gravity feed waste oil drainers with 2M x 25.4mm discharge hose. Discharge is by air pressure. Fitted with safety valve, 18L steel telescopic collection pan, oil reservoir level indicator and small working tray. Heavy duty castors for easy manoeuvrability around the workshop with chrome plated pull-along handle. Carton packed.

Stock No.	Part No No.	Max. Cap.	Max. Height	Euro each	GBP £ each
78404	OD65	65L	1510mm	€518.55	£345.70
78405	OD90	90L	1850mm	€552.03	£368.02

3 FP1

Diesel Fuel/Fluid Transfer Pump

Designed for the transfer of paraffin, diesel fuel and other high flash point fuels. Self-priming pump, powered by a 12V or 24V lead acid battery (sold separately). Supplied complete with 4M (approx.) of delivery hose (25mm O/D), delivery gun, suction hose and crocodile clips. Display carton.

Specification:

Motor (12V)	...	192W 16A:1400rpm
Motor (24V)	...	624W 26A:2200rpm
Flow rate	...	30L/min (12V) 37L/min (24V)
Weight (pump only)	...	10kg

Stock No.	Euro each	GBP £ each
65673	€463.14	£308.76

product information

Every effort has been made to ensure that the applications shown in the 2007 Draper Tools Catalogue are accurate and include all the current car/van models.

4 OFCS/SET13

13 piece 3/8" Sq. Dr. Oil Filter Cup Socket Set

Expert Quality, comprehensive set suitable for most common sizes of oil filters fitted to a variety of European car marques. Comprises 11 different diameter sockets, 1/2" (F) x 3/8" (M) adaptor and a 3/8" sq. dr. three leg oil filter wrench. Packed in blow mould case with display sleeve.

Stock No.	Euro per set	GBP £ per set
40104	€84.54	£56.36

5 OFCS/SET15

15 piece 3/8" Sq. Dr. Oil Filter Cup Socket Set

Expert Quality, comprehensive set suitable for most common sizes of oil filters fitted to a variety of popular American, European and Far Eastern car marques. Comprises 14 different diameter sockets and 1/2" (F) x 3/8" (M) adaptor. Packed in blow mould case with display sleeve.

Stock No.	Euro per set	GBP £ per set
40105	€72.03	£48.02

6 FDP3

3 piece Set of Fuel Line Disconnection Pliers

Expert Quality, manufactured from pressed steel with black painted finish and dipped handles. For disconnection of fuel lines on many popular vehicle marques. Display packed.

Contents:

- 120 x 8mm twin peg pliers with red handles for use on Chrysler, Ford and Renault petrol fuel systems
- 120 x 8mm dia. pliers with green handles for use on GM (Vauxhall/Opel) fuel systems
- 120 x 10mm dia. pliers with blue handles for use on Chrysler, Ford and Renault diesel fuel systems

Stock No.	Euro per set	GBP £ per set
40106	€29.73	£19.82

product locator

Tools for lubrication are shown on pages 104-105

1 LPDP

30L Slimline Oil and Water Drain Pan

Expert Quality, for DIY or professional mechanics. Allows oil or water to be drained without the need to raise the vehicle or waste valuable liquids. Strong durable plastic with recessed moulded integral handles, four heavy duty low profile swivelling castors, removable anti-splash grille and three separate drain plugs. Sold loose with display label.

Stock No.	Dimensions	Euro each	GBP £ each
40143	850 x 600 x 100mm	€109.59	£73.06

2 OP16

16L Oil Drain Pan

Manufactured from high-density polyethylene with UV stabilizer resistant to most chemicals and solvents. Anti-splash lip, large handles and enclosed spout helps reduce spillages. Sold loose.

Stock No.	Overall Diameter	Euro each	GBP £ each
73038	450mm	€25.65	£17.10

3 FF1

Flexible Funnel

PVC with detachable flexible neck. Supplied with removable gauze filter. Aperture size of funnel mouth 110mm. Sold loose.

Stock No.	Euro each	GBP £ each
56141	€1.95	£1.30

4 FF2

Three Piece Funnel

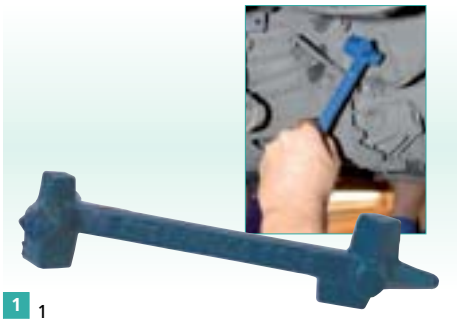
PVC with two-piece neck for straight or angled filling. Supplied with removable gauze filter. Aperture size 125 x 210mm. Packed in polybag with header card.

Stock No.	Euro each	GBP £ each
69674	€3.30	£2.20

Drain Plug Keys

Stock No.	Part No.	Description		Euro each	GBP £ each
63476	HDPK1	**1/2" Sq. Dr. Audi/VW Drain Plug Key** Expert Quality, for use on the tamperproof plug on transmission/gearboxes of VW/Audi vehicles. Display packed.		€8.88	£5.92
38321	DDPK2	**8mm - 5/16" Hexagon 3/8" Sq. Dr. Drain Plug Key** Chrome vanadium steel hardened and tempered. Display packed. **Vehicle Applications:** BMW: Back Axle; Ford CVH: Gearbox; GM (Vauxhall/Opel): Back Axle & Gearbox		€2.76	£1.84
38322	DDPK3	**11mm Square 3/8" Sq. Dr. Drain Plug Key** Chrome vanadium steel hardened and tempered. Display packed. **Vehicle Applications:** Ford (except CVH): Back Axle & Gearbox		€2.76	£1.84
38323	DDPK5	**17mm Hexagon 3/8" Sq. Dr. Drain Plug Key** Chrome vanadium steel hardened and tempered. Display packed. **Vehicle Applications:** {Audi: Gearbox; Rover Group (Austin): Gearbox BMW: Gearbox; Volkswagen: Gearbox		€2.76	£1.84
38324	DDPK6	**8mm Square 3/8" Sq. Dr. Drain Plug Key** Chrome vanadium steel hardened and tempered. Display packed. **Vehicle Applications:** {Citroën: Gearbox & Sump; Peugeot: Back Axle, Gearbox & Sump Renault: Sump; Talbot: Gearbox & Sump; Volvo: Sump		€2.76	£1.84
38325	DDPK7	**3/8" Square 3/8" Sq. Dr. Drain Plug Key** Chrome vanadium steel hardened and tempered. Display packed. **Vehicle Applications:** {Honda: Gearbox & Sump; Mazda: Back Axle & Gearbox Renault: Gearbox & Sump; Saab: Gearbox Volvo: Back Axle & Sump		€2.76	£1.84
38326	DDPK8	**12mm Hexagon 3/8" Sq. Dr. Drain Plug Key** Chrome vanadium steel hardened and tempered. Display packed. **Vehicle Applications:** {Fiat: Sump; Lancia: Gearbox & Sump Peugeot/Talbot: Back Axle, Gearbox & Sump		€2.76	£1.84
38327	DDPK9	**14mm Hexagon 3/8" Sq. Dr. Drain Plug Key** Chrome vanadium steel hardened and tempered. Display packed. **Vehicle Applications:** Lancia: Gearbox & Sump; Mercedes: Back Axle ,Gearbox & Sump		€2.76	£1.84
38328	DDPK10	**10mm Hexagon 3/8" Sq. Dr. Drain Plug Key** Chrome vanadium steel hardened and tempered. Display packed. **Vehicle Applications:** Ford Sierra: Back Axle		€2.76	£1.84

Prices are list, each and exclude VAT.



1 1

210mm Multi-Purpose Drain Plug Wrench

Nine different tapered sizes for the removal of female drain plugs fitted in many automotive applications. Sold loose.

Stock No.	Euro each	GBP £ each
07179	€6.93	£4.62

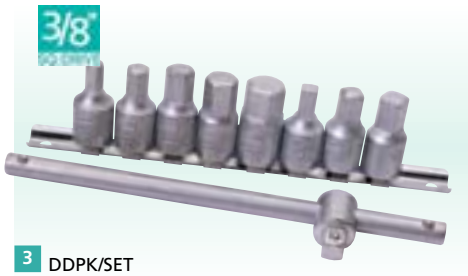
2 DPK/SET

5 piece Drain Plug Key Set

Chrome vanadium steel hardened and tempered with a bronze plated finish. Double-ended key sizes. Display packed in plastic case.

- Contents: 3/8" - 9mm hexagon, 3/8" - 11mm square, 10 - 12mm hexagon, 8 - 13mm square and 14 - 17mm hexagon.

Stock No.	Euro per set	GBP £ per set
56627	€17.04	£11.36



3 DDPK/SET

10 piece 3/8" Sq. Dr. Drain Plug Key Set

Chrome vanadium steel hardened and tempered. For use with 3/8" square drive accessories. Display packed.

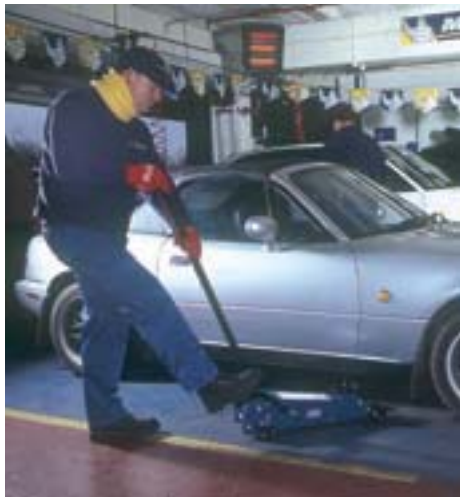
Contents: 8mm/5/16" hexagon, 11mm square, 17mm hexagon, 8mm square, 3/8" square, 12mm hexagon, 14mm hexagon, 10mm hexagon, 200mm socket retaining bar and 200mm sliding tee bar.

Stock No.	Euro per set	GBP £ per set
38329	€26.64	£17.76

workshop equipment

norman says

This subsection shows the range of tools available for the garage workshop. Heavy duty jacks, bottle jacks and engine cranes are amongst the high quality products which are manufactured to meet the requirements of constant use in the professional workplace - read on to page 99 to see them all!



4 TJ3HD/QL

3 Tonne Heavy Duty Garage Jack with 'Quick Lift' Facility

Manufactured to EN1494 Specification

Heavy duty design with integral American-style release mechanism and two-piece handle. Incorporates 'Quick Lift' pedal which when depressed brings the saddle into contact with the jacking point without the need to pump the handle. Fitted with heavy duty rear swivelling castor wheels and large saddle to aid positioning under the vehicle. The jack incorporates a safety overload and bypass valves to prevent the handle locking at the maximum ram extension. Display carton.

Specification:

Capacity	... 3 tonnes (3000kg)
Lifting range	... 145 - 490mm
Overall size	... 640 x 350 x 180mm
Weight	... 39.5kg

Stock No.	Euro each	GBP £ each
59301	€207.09	£138.06

5 TJ3/HD

3 Tonne Heavy Duty Garage Trolley Jack

Manufactured to EN1494 Specification

Heavy duty design with integral American-style release mechanism and two-piece handle. Fitted with heavy duty rear swivelling castor wheels and large saddle to aid positioning under the vehicle. The jack incorporates a safety overload and bypass valves to prevent the handle locking at the maximum ram extension. Display carton.

Specification:

Capacity	... 3 tonnes (3000kg)
Lifting range	... 145 - 520mm
Overall size	... 660 x 350 x 160mm
Weight	... 40kg

Stock No.	Euro each	GBP £ each
59300	€191.04	£127.36

6 TJ2/HD

2 Tonne Heavy Duty Trolley Jack

Manufactured to EN1494 Specification.

Heavy duty design with integral American-style release mechanism and two-piece handle. Fitted with heavy duty rear swivelling castor wheels and large saddle to aid positioning under the vehicle. The jack incorporates a safety overload and bypass valves to prevent the handle locking at the maximum ram extension. Display carton.

Specification:

Capacity	... 2 tonnes (2000kg)
Lifting range	... 130 - 500mm
Overall size	... 650 x 320 x 160mm

Supplied complete with two piece handle.

*Sold loose.

Stock No.	Euro each	GBP £ each
37174	€174.99	£116.66

SEE PAGE 93 ITEM No. 6 FOR TROLLEY JACK SUITABLE FOR USE WITH ITEM Nos. 1 AND 2 (STOCK No. 37174)

1 ATJ2/CBA

2 Tonne Cross Beam Adaptor

Provides extra safety when locating awkward jacking points. Ideal for front wheel drive vehicles. For use with Draper Trolley Jack, Stock No. 37174. Carton packed.

Specification:

Overall length (min.)	... 580mm
Overall length (max.)	... 810mm
Saddle elevation (max.)	... 50mm
Saddle size	... 120 x 120mm

Stock No.	Euro each	GBP £ each
56756	€94.71	£63.14

2 ATJ2/TC

200kg Transmission Cradle

For use with Draper Trolley Jack Stock No.37174. Carton packed.

Specification:

Load (max.)	... 200kg
Width	... 430mm
Length (min.)	... 267mm
Length (max.)	... 375mm
Height	... 350mm
Saddle tilt	... 30-10°
Weight	... 13.5kg

Stock No.	Euro each	GBP £ each
56758	€72.27	£48.18

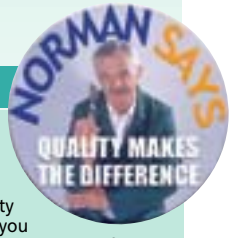
3 RWC

Rubber Wheel Chocks

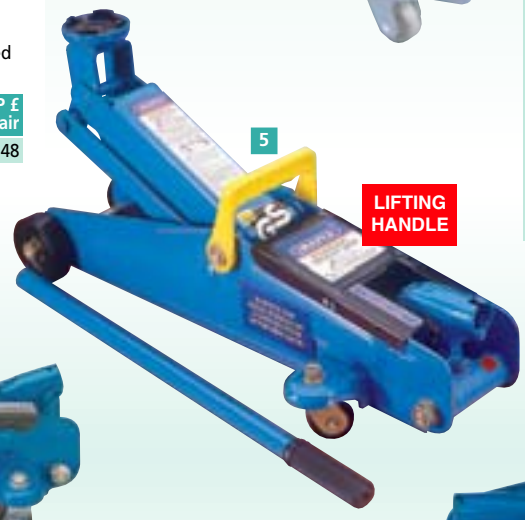
Pair of chocks to prevent vehicles moving whilst jacked up or on a slope. Display carton.

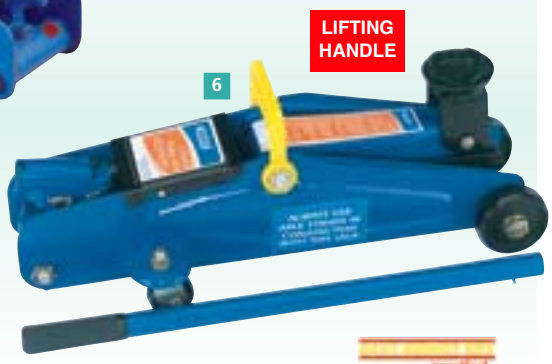
Stock No.	Euro per pair	GBP £ per pair
54500	€11.22	£7.48

norman says



SAFETY OVERLOAD PROTECTION
Jacks are rated to lift a certain load and for your safety all Draper jacks are fitted with Safety Overload Protection. If the load you are trying to lift is heavier than the capacity of the jack the Safety Overload Protection will prevent the jack from operating, saving any possible damage to the jack or possible injury to the user. Never work under an unsupported jack and always use a jack that is correctly rated for the application.





4 TJ2/QL

2 Tonne General Duty Trolley Jack with 'Quick Lift' Facility

Manufactured to EN1494 Specification.
General duty 'Quick Lift' trolley jack. The 'quick lift' gives extra lift per stroke of the jack handle thereby requiring less effort to achieve the required height. Fitted with rear swivelling castor wheels and large saddle to aid positioning under the vehicle. The jack incorporates safety overload and bypass valves to prevent the handle locking at the maximum ram extension. Display carton.

Specification:

Capacity	... 2 tonnes (2000kg)
Lifting range	... 135 - 385mm
Overall size	... 550 x 212 x 140mm

Supplied complete with one piece handle.

Stock No.	Euro each	GBP £ each
63205	€71.76	£47.84

5 TJ2

2 Tonne Trolley Jack

Manufactured to EN1494 Specification.
Light duty design with integral American-style release mechanism. Fitted with heavy duty rear swivelling castor wheels and large saddle to aid positioning under the vehicle. The jack incorporates a safety overload and bypass valves to prevent the handle locking at the maximum ram extension. Display carton.

Specification:

Capacity	... 2 tonnes (2000kg)
Lifting range	... 130 - 380mm
Overall size	... 535 x 225 x 145mm
Length	... 545mm
Weight	... 12kg

Supplied complete with one piece handle.

Stock No.	Euro each	GBP £ each
37036	€59.16	£39.44

6 TJ2AP

2 Tonne Light Duty Trolley Jack

Ideal for home use. Rear swivelling castors and large saddle to aid positioning under the vehicle. Display carton.

Specification:

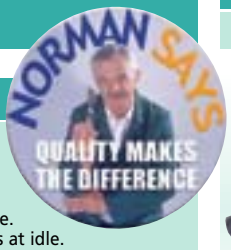
Capacity	... 2 tonnes (2000kg)
Lifting range	... 130- 350mm
Overall size	... 492 x 218 x 132mm
Weight	... 10.5kg

Supplied complete with one piece handle

Stock No.	Euro each	GBP £ each
59340	€50.58	£33.72

Prices are list, each and exclude VAT.

norman says



INFLATABLE AIR JACK
(Item No.1)
This innovative product will jack a vehicle up to 3 tonnes using the exhaust of the vehicle. It inflates in around 50 seconds at idle. What's more, it folds to a very compact and easily storable bag.

1 AJ3

3 Tonne Inflatable Air Jack

Ideal for emergency use for changing wheels or righting vehicles. Exhaust gases inflate the airbag by way of a hose connected to the vehicle's exhaust. Supplied complete with two protection mats (one for the ground and other for the underside of the vehicle), 4.5M (approx.) hose with standard size exhaust coupling and storage bag. Optional large (90mm) exhaust coupling available separately. Display carton.

Specification:

Lifting capacity	... 3000kg
Inflatable bag size	... 480 x 545mm
Hose length	... 4.5M (approx.)
Inflating time	... 50 secs. (approx.) at idle speed

Stock No.	Description	Euro each	GBP £ each
61432	Air Jack	€94.02	£62.68
69311	90mm Exhaust Coupling	€12.06	£8.04

2

Scissor Jacks

Manufactured to EN1494 Specifications.
Display carton.

Specification:

Lifting range	... 95 - 350mm
Base plate size	... 150 x 190mm

Supplied complete with winding handle.

Stock No.	Part No.	Capacity	Euro each	GBP £ each
53093	SJ1	1 tonne	€22.47	£14.98
87433	SJ2A	1.5 tonne	€25.65	£17.10

3

Hydraulic Bottle Jacks

Manufactured to EN1494 Specification.
High quality, fitted with unique overload protection system, large stable base and notched saddle. Supplied complete with two-piece handle. Capacity is in tonnes.
*Display carton. †Carton packed.

Stock No.	Part No.	Lifting Range	Capacity Tonnes	Euro each	GBP £ each
39054	BJ2	181-345mm	2*	€22.02	£14.68
39055	BJ4	194-372mm	4*	€32.07	£21.38
39056	BJ6	216-413mm	6*	€38.49	£25.66
39057	BJ12	230-465mm	12*	€62.94	£41.96
39225	BJ20	242-452mm	20†	€93.09	£62.06

4 BJ12HL

12 Tonne High Lift Hydraulic Bottle Jack

Manufactured to EN1494 Specification.
Professional quality, ideal for the workshop or body shop. The 'high lift' feature allows easy loading of vehicles onto bodywork jigs. Large stable base, two-stage ram and built-in overload protection system. Min. height 230mm. Max. height 555mm. Supplied complete with two-piece handle. Carton packed.

Stock No.	Lifting Range	Euro each	GBP £ each
55124	230-555mm	€133.20	£88.80

5 AS6000

12 Tonne Axle Stands (Pair)

Expert Quality, manufactured from carbon steel hardened and tempered with hardened steel pin. Display carton.

Specification:

Minimum height	... 535mm
Maximum height	... 870mm
Capacity (max. per stand)	... 6000kg (S.W.L)
Capacity (per pair)	... 12000kg (S.W.L)

Stock No.	Euro per pair	GBP £ per pair
54722	€140.73	£93.82

6 AS2000

4 Tonne Axle Stands (Pair)

Manufactured to BSAU 223 Specification
Expert Quality, manufactured from carbon steel hardened and tempered with hardened steel pin. Display carton.

Specification:

Minimum height	... 310mm
Maximum height	... 520mm
Capacity (max. per stand)	... 2000kg (S.W.L)
Capacity (per pair)	... 4000kg (S.W.L)

Stock No.	Euro per pair	GBP £ per pair
54721	€52.44	£34.96

7 AS2000R

4 Tonne Axle Stands (Pair)

Manufactured to BSAU 223 Specification
Ratchet-type action. Large saddle (38 x 85mm). Display carton.

Specification:

Minimum height	... 280mm
Maximum height	... 405mm
Capacity (max. per stand)	... 2000kg (S.W.L)
Capacity (per pair)	... 4000kg (S.W.L)

Stock No.	Euro per pair	GBP £ per pair
64431	€28.56	£19.04

8 FAS18A

4 Tonne Foldable Axle Stands (Pair)

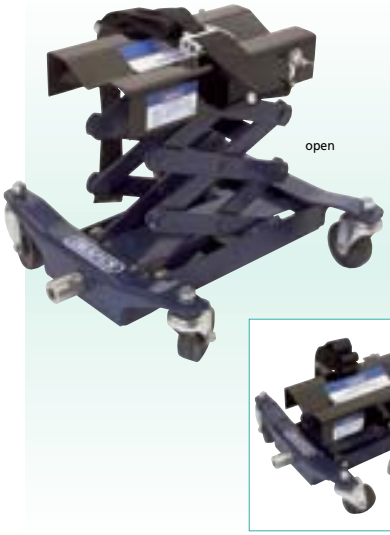
Manufactured to BSAU 223 Specifications.
Manufactured from carbon steel hardened and tempered with a hardened steel pin. Display carton.

Specification:

Minimum height	... 240mm
Maximum height	... 365mm
Capacity (max. per stand)	... 2000kg (S.W.L)
Capacity (per pair)	... 4000kg (S.W.L)

Stock No.	Euro per pair	GBP £ per pair
78210	€25.02	£16.68

Prices are list, each and exclude VAT.



1 TJ200T

150kg Floor Transmission Jack

Manufactured to EN1570 Specification.
Suitable for lifting and lowering gearboxes and differential units. The scissor-type design provides precise movement allowing the user to accurately manoeuvre and fit the transmission assembly. Four heavy duty swivel castors provide flexibility of movement within the workplace. Carton packed.

Specification:

Capacity	... 150kg
Minimum height	... 170mm
Maximum height	... 570mm
Base width	... 420mm
Base length	... 410mm
Weight	... 17kg

Stock No.	Euro each	GBP £ each
53095	€183.00	£122.00

2 TJ600TV

600kg Vertical Transmission Jack

Manufactured to EN 1494 Specifications.
For use in the garage workshop. This model features high speed lift foot pedal. Hand operated precision release incorporating overload safety valve, large diameter wheels for easy manoeuvrability. Carton packed.

Specification:

Capacity	... 600kg
Stroke	... 700mm
Height (min)	... 1175mm
Height (max.)	... 1985mm
Base width	... 560mm
Base length	... 570mm
Weight	... 39kg

Stock No.	Euro each	GBP £ each
56731	€457.50	£305.00

3 ES450

450kg Engine/ Transmission Stand

This stand will accept a wide variety of engines and transmissions. The swivelling head (360°) gives accessibility to all parts of the engine. Fully adjustable mounting arms. The two front castors of the 'H' frame base allow the stand to be moved around the workplace. Carton packed.

Specification:

Capacity	... 450kg
Width Front	... 400mm
Rear	... 800mm
Overall length	... 800mm
Height	... 910mm
Weight	... 21kg

Stock No.	Euro each	GBP £ each
53092	€99.54	£66.36

4 ES300

300kg Universal Engine/Gearbox Support

Allows work to be carried out on front wheel drive/transmission/drive shafts with engine suspended in-situ. Adjustable extension arms with locking feature. Neoprene support pads and adjustable screw. Carton packed.

Specification:

Capacity	... 300kg
Maximum extended width	... 1550mm (approx.)
Minimum width	... 1100mm (approx.)
Screw depth	... 300mm

Stock No.	Euro each	GBP £ each
53094	€112.38	£74.92

5 ES500

500kg Universal Engine/Gearbox Support

Allows work to be carried out on front wheel drive/transmission/drive shafts with engine suspended in-situ. Adjustable extension arms with locking feature. Neoprene support pads and adjustable screws. Carton packed.

Specification:

Capacity	... 500kg
Maximum extended width	... 1550mm (approx.)
Minimum width	... 1100mm (approx.)
Screw depth	... 300mm

Stock No.	Euro each	GBP £ each
61033	€135.03	£90.02

6 LL500

Load Leveller for Engine Crane

Suitable for levelling off centre loads quickly and easily. For use with Draper Stock No.53091 and 63285 Engine Cranes and other manufacturers similar cranes. Carton packed.

Stock No.	S.W.L.	Euro each	GBP £ each
56730	500kg	€56.19	£37.46

Prices are list, each and exclude VAT.

1 EC1000

1 Tonne Folding Engine Crane

Hydraulic engine crane with patented double piston pump. Diagram on this page shows critical lifting heights and weights. Carton packed.

Specification:

Frame height	... 1300mm
Frame length	... 1260mm
Frame width	... 950mm
Width of inside frame	... 750mm
Dist. between ctr. of rear wheels	... 600mm
Weight (approx.)	... 82kg

Stock No.	Euro each	GBP £ each
53091	€454.23	£302.82

2 EC2000

2 Tonne Folding Engine Crane

Hydraulic engine crane with patented double piston pump. Diagram on this page shows critical lifting heights and weights. Carton packed.

Specification:

Frame height	... 1900mm
Frame length	... 1830mm
Frame width	... 1070mm
Width of inside frame	... 940mm
Dist. between ctr. of rear wheels	... 705mm
Weight (approx.)	... 93kg

Stock No.	Euro each	GBP £ each
63285	€534.54	£356.36

3 AEC1000

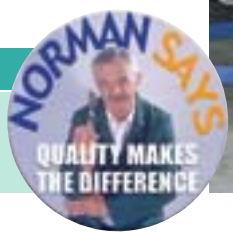
780mm Chain for Engine Crane

For use with Draper Stock No.53091 and 63285 Engine Cranes and other manufacturers similar cranes. Display packed.

Stock No.	S.W.L.	Euro each	GBP £ each
59077	450kg	€24.06	£16.04

norman says

ENGINE CRANES - HEALTH AND SAFETY It is imperative that the guidelines shown in the above schematics are followed concerning weight against lifting height. The general rule is the further along the lifting arm the engine is suspended the less weight it can carry safely, but lift it higher. Nearer the support arm, more weight but less height.



Prices are list, each and exclude VAT.

1 HBP/10

10 Tonne Hydraulic Bench Press

For use in the garage and workshop. Hydraulic gauge included. Carton packed.

Specification:

Capacity	...	10 tonnes
Ram stroke	...	190mm
Height - ram to table	...	360mm (max.)
	...	190mm (min.)
Table aperture	...	140mm
Working table width	...	360mm
Overall height	...	990mm
Weight	...	53kg (net)

Stock No.	Euro each	GBP £ each
58157	€601.95	£401.30

2 HFP/10

10 Tonne Hydraulic Floor Press

For use in the garage and workshop. Hydraulic gauge included. Carton packed.

Specification:

Capacity	...	10 tonnes
Ram stroke	...	190mm
Height - ram to table	...	918mm (max.)
	...	0mm (min.)
Table aperture	...	90mm
Working table width	...	420mm
Overall height	...	1525mm
Weight	...	65.5kg (net)

Stock No.	Euro each	GBP £ each
58158	€682.23	£454.82

3 HFP/20

20 Tonne Hydraulic Floor Press

For use in the garage and workshop. Hydraulic gauge included. Carton packed.

Specification:

Capacity	...	20 tonnes
Ram stroke	...	198mm
Height - ram to table	...	885mm (max.)
	...	33mm (min.)
Table aperture	...	105mm
Working table width	...	555mm
Overall height	...	1770mm
Weight	...	128.5kg (net)

Stock No.	Euro each	GBP £ each
58159	€1094.64	£729.76

4 EFE

Portable Pneumatic Exhaust Fume Extractor

For the extraction of harmful gases in confined spaces whilst running car engines for maintenance, MOT's etc. Supplied complete with 2.5M of flexible hose. Connects to standard airline supply using a ⅜" BSP 'quick connect' connector. Working pressure: 70-115psi (5-8bar). Carton packed.

Stock No.	Euro each	GBP £ each
87378	€433.20	£288.80

5 CC2

Mechanics Creeper/Seat

Creeper that easily converts to seat form. Heavy duty powder coated steel frame with adjustable head rest. Padded PVC covered seat and head rest. Seven swivel action castors for easy movement around the workshop. Converts to seat by pulling lifting strap. Display carton.

Stock No.	Overall Length	Euro each	GBP £ each
56224	1200mm	€121.86	£81.24

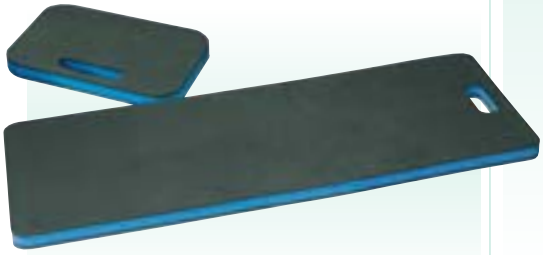
Prices are list, each and exclude VAT.

1 CC1

Mechanics Creeper

Rigid PVC construction with six multi directional castors for easy movement. Moulded back for user comfort. Maximum carrying weight 125kg (19½ stone). Display packed.

Stock No.	Overall Length	Euro each	GBP £ each
38081	935mm	€42.81	£28.54



2

Foam Mats

Ideal for working under vehicles etc. Oil and water-resistant. Packed in polythene bag with label

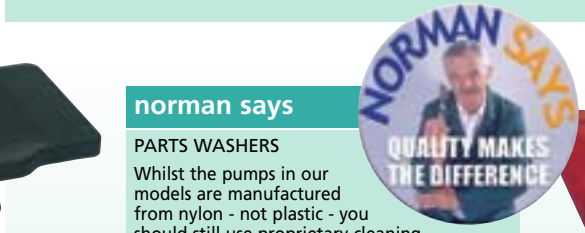
Stock No.	Part No.	Size	Euro each	GBP £ each
64278	MM1	220 x 336mm	€17.07	£11.38
64279	MM2	980 x 380mm	€47.43	£31.62

3 SC/HD

Heavy Duty Protective Seat Cover

Expert Quality, universal fitting seat cover for single seats. Waterproof and resistant to mud, paint, oil and grease. Velcro securing strips attached to prevent slippage, elasticated skirt fits around seat base. Display packed in polythene bag.

Stock No.	Euro each	GBP £ each
59531	€40.14	£26.76



norman says

PARTS WASHERS

Whilst the pumps in our models are manufactured from nylon - not plastic - you should still use proprietary cleaning fluids... not petrol in parts washers.

4 DPW2

Bench-Mounted Parts Washer

For the degreasing of component parts prior to assembly. Sturdy steel construction, enamelled finish with lid. Fitted with BS approved non-rewireable 3 pin moulded plug and cable. Carton packed.

Features:

- Built-in replaceable filter
- Chromed flexible metal fluid delivery pipes
- Fully enclosed electric pump and fully screened pump housing
- Removable shelf keeps parts out of solvent during inspection and drying
- Immersion soaking when parts shelf removed
- Non welded one-piece tank
- Comprehensive instruction manual
- Not suitable for use with solvent based cleaning fluids

Specification:

Pump output (per hour)	... 227L
Motor	... 25W - 230V AC
Tank capacity	... 12L
Dimensions:	
Overall	... Length: 470mm
	... Width: 340mm
	... Height: 250mm
Tank-internal	... Length: 400mm
	... Width: 310mm
	... Height: 230mm
Weight	... 7.3kg

Stock No.	Description	Euro each	GBP £ each
37826	Parts Washer	€159.33	£106.22
38702	Replacement Filter	€1.41	£0.94
38580	Replacement Pump	€52.20	£34.80

5 DPW1

Floor Standing Parts Washer

For the degreasing of component parts prior to assembly. Sturdy steel construction, enamelled finish with lid. Fitted with BS approved non-rewireable 3 pin moulded plug and cable. Carton packed.

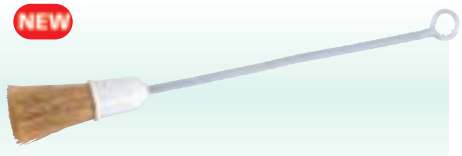
Features:

- Built-in replaceable filter
- Self-latching fusible linked fire cover
- Chromed flexible metal fluid delivery pipes
- Fully enclosed electric pump and fully screened pump housing
- Removable shelf keeps parts out of solvent during inspection and drying
- Immersion soaking when parts shelf removed
- Non welded one-piece tank
- Comprehensive instruction manual
- Not suitable for use with solvent based cleaning fluids

Specification:

Pump output (per hour)	... 227L
Motor	... 25W - 230V AC
Tank capacity	... 76L
Dimensions:	
Overall	... Length: 800mm
	... Width: 550mm
	... Height: 890mm
Tank-internal	... Length: 725mm
	... Width: 490mm
	... Height: 270mm
Weight	... 32kg

Stock No.	Description	Euro each	GBP £ each
37825	Parts Washer	€278.13	£185.42
51925	Replacement Filter	€2.25	£1.50
38691	Replacement Pump	€52.17	£34.78



6 4857B

Engine Cleaning Brush

Large bristle head with plastic cap and 'easy grip' plastic coated wire handle. Display packed.

Stock No.	Head Dia.	Euro each	GBP £ each
41389	23mm	€3.12	£2.08

7 4858

Parts Cleaning Brush

Plastic handle with bristle head. Display packed.

Stock No.	Head Dia.	Euro each	GBP £ each
38860	25mm	€3.39	£2.26

Specialist Automotive Sockets

The table below shows the range of Expert Quality specialist sockets. Some sockets are impact and can be used with air or electric power tools.
Every effort has been made to ensure that the applications shown in this publication are accurate and include all current car/van models.

	Sq. Drive	Stock No.	Part No.	Description	Euro each	GBP £ each
1	3/8"	55540	DT-OXY	**22mm 3/8" Sq. Dr. Oxygen Sensor Socket** Expert Quality, for oxygen sensors. Special slot in the side of socket for sensor wire clearance. Also suitable for diesel injectors found in Mitsubishi, Nissan, Opel, Vauxhall and VW vehicles. Manufactured from chrome vanadium steel hardened, tempered and chemically blacked for corrosion protection. Display packed.	€10.20	£6.80
2	1/2"	55993	410D-MM	**12.5mm 1/2" Sq. Dr. Pentagon Impact Socket** Expert Quality, five point (pentagon) impact socket for the bendix brakes on Citroën and Peugeot vehicles. Each side of the pentagon is 12.5mm. Forged from chrome molybdenum steel hardened, tempered and chemically blacked for corrosion protection. Display packed.	€5.16	£3.44
3	1/2"	39046	HTD-MM	**22mm 1/2" Sq. Dr. Diesel Injector Socket** Expert Quality, 6 point socket for the removal of diesel injectors fitted to GM (Vauxhall/Opel) Mitsubishi, Nissan and Volkswagen vehicles. Forged from chrome vanadium steel hardened, tempered, chrome plated and polished for corrosion protection. Display packed.	€9.27	£6.18
4	1/2"	71392	410D-MM	**26mm 1/2" Sq. Dr. Hub Nut Impact Socket** Expert Quality, 12 point socket forged from chrome vanadium steel hardened, tempered and chemically blacked polished for corrosion protection. For use on Audi and Volkswagen models. Display packed.	€7.95	£5.30
5	1/2"	16216	HTD-MM	**27mm 1/2" Sq. Dr. Diesel Injector Socket** Expert Quality, 6 point socket for the removal of M24 threaded injectors fitted to many car and light commercial diesel engines. Forged from chrome vanadium steel hardened, tempered, chrome plated and polished for corrosion protection. Display packed.	€9.48	£6.32
6	1/2"	21833	HTD-MM	**28mm 1/2" Sq. Dr. HGV Diesel Injector Socket** Expert Quality, 12 point socket for the removal of diesel injectors from HGV's including Scania and Volvo. Forged from chrome vanadium steel hardened, tempered, chrome plated and polished for corrosion protection. Display packed.	€10.92	£7.28
7	1/2"	22192	HTD-MM	**30mm 1/2" Sq. Dr. Hub Nut Socket** Expert Quality, 6 point socket for hub nuts. Fits Audi, Citroën, Fiat, Ford, GM (Vauxhall/Opel), Lada, Peugeot, Renault, Talbot and Volkswagen models. Forged from chrome vanadium steel hardened, tempered, chrome plated and polished for corrosion protection. Display packed.	€10.11	£6.74
8	1/2"	71393	410D-MM	**30mm 1/2" Sq. Dr. Hub Nut Impact Socket** Expert Quality, 12 point socket forged from chrome vanadium steel hardened, tempered and chemically blacked polished for corrosion protection. For use on Audi and Volkswagen models. Display packed.	€10.29	£6.86
9	1/2"	35521	HTD-MM	**32mm 1/2" Sq. Dr. Hub Nut Socket** Expert Quality, 6 point socket for hub nuts. Fits Audi, Citroën, Fiat, Ford, GM (Vauxhall/Opel), Lada, Peugeot, Renault, Talbot and Volkswagen models. Also driveshaft on Rover 200/400 models and Mercedes 7.5 tonne and over commercial vehicles. Forged from chrome vanadium steel hardened, tempered, chrome plated and polished for corrosion protection. Display packed.	€10.11	£6.74
10	1/2"	39047	HTD-MM	**35mm 1/2" Sq. Dr. Hub Nut Socket** Expert Quality, 6 point socket for hub nuts on Citroën BX, Xantia and Peugeot J7/J9 vehicles. Forged from chrome vanadium steel hardened, tempered, chrome plated and polished for corrosion protection. Display packed.	€10.32	£6.88

1 LSS7

7 piece 3/8, 1/2" Sq. Dr. 'Lamba' or Oxygen Sensor Socket Set

Expert Quality, for removal, inspection or replacement of heated and non-heated oxygen sensors fitted to the following vehicle marques; Audi, BMW, Citroën, Mercedes, Peugeot, Renault, Skoda, Vauxhall/Opel (GM) and Volkswagen. Cut-away sections allow some sockets to fit over wiring harnesses. Sockets have black phosphate finish. Display packed in blow moulded case.

Contents:

3/8" Square Drive
- 3/8" x 80mm deep socket with 7.7mm wide long groove
- 3/8" x 90mm deep socket with 20.5mm wide long groove
- Offset square drive socket with 8.6mm wide full length groove
- 1.1/16" x 74mm deep socket

1/2" Square Drive
- Offset square drive deep socket 22 x 49.5mm with 11mm wide full length groove
- 27 x 85mm deep socket with large side viewing window
- 29 x 90mm deep socket with 8.2mm wide long groove

Stock No.	Euro per set	GBP £ per set
89765	€78.27	£52.18

2 AWNSS/3

1/2" Sq. Dr. Draper Expert Hi-Torq Wheel Nut Sockets for Alloy Wheels

Expert Quality, set of three 6 point Draper Expert HI-TORQ sockets sizes 17, 19 and 21mm. Manufactured from chrome molybdenum steel hardened and tempered. Sleeved with nylon internally and externally to prevent damage to wheels and nuts. Supplied in handy blow mould case with display sleeve.

Draper Expert HI-TORQ is a trademark of Draper Tools Ltd.

Stock No.	Euro per set	GBP £ per set
59080	€39.78	£26.52

Prices are list, each and exclude VAT.

Specialist Automotive Sockets

The table below shows the range of Expert Quality specialist sockets. Some sockets are impact and can be used with air or electric power tools.
Every effort has been made to ensure that the applications shown in this publication are accurate and include all current car/van models.

	Sq. Drive	Stock No.	Part No.	Description	Euro each	GBP £ each
1	¾"	71883	411D-MM	**24mm ¾" Sq. Dr. Hub Nut Impact Socket** Expert Quality, 6 point deep socket forged from chrome vanadium steel hardened, tempered and chemically blacked for corrosion protection. For use on Ford and Mercedes up to 7.5 tonnes. Sold loose.	€25.86	£17.24
2	¾"	71908	411D-MM	**27mm ¾" Sq. Dr. Hub Nut Impact Socket** Expert Quality, 6 point deep socket forged from chrome vanadium steel hardened, tempered and chemically blacked for corrosion protection. For use on DAF, Fiat Iveco, Renault, Volvo and Volkswagen vehicles. Sold loose.	€26.58	£17.72
3	¾"	71916	411D-MM	**30mm ¾" Sq. Dr. Hub Nut Impact Socket** Expert Quality, 6 point deep socket forged from chrome vanadium steel hardened, tempered and chemically blacked for corrosion protection. For use on Bedford (3 ton) and Scammel vehicles. Sold loose.	€26.58	£17.72
4	¾''	71924	411D-MM	**32mm ¾" Sq. Dr. Hub Nut Socket** Expert Quality, 6 point deep socket forged from chrome vanadium steel hardened, tempered and chemically blacked for corrosion protection. For use on Mercedes vehicles. Sold loose.	€26.58	£17.72
5	¾"	11899	411D-MM	**33mm ¾" Sq. Dr. Hub Nut Impact Socket** Expert Quality, 6 point deep socket forged from chrome vanadium steel hardened, tempered and chemically blacked for corrosion protection. For use on Bedford (2 ton), Leyland, Scammel and Volvo wheel nuts. Sold loose.	€27.15	£18.10
6	¾"	71940	411D-MM	**36mm ¾" Sq. Dr. Hub Nut Impact Socket** Expert Quality, 6 point deep socket forged from chrome vanadium steel hardened, tempered and chemically blacked for corrosion protection. For hub nuts on Alfa Romeo, Citroën, Fiat, Lancia, Peugeot, VW/Audi and Volvo clutches. Also clutches on Vauxhall/Opel (GM) and crankshaft pulley nuts on most vehicles' gearboxes and brakes on Saabs. Display packed.	€27.15	£18.10
7	¾"	26669	TTD-MM	**41mm ¾" Sq. Dr. Hub Nut Socket** Expert Quality, 6 point socket for the removal of hub nuts on Alfa Romeo, Citroën, Fiat and Ford Sierra Sapphire vehicles. Forged from chrome vanadium steel, hardened, tempered, chrome plated and polished for corrosion protection. Display packed.	€15.87	£10.58
8	¾"	39048	TTD-MM	**56mm ¾" Sq. Dr. Hub Nut Socket** Expert Quality, 12 point socket for the removal of hub nuts on Ford Transit vehicles 1993 onwards. Forged from chrome vanadium steel hardened, tempered and polished for corrosion protection, Display packed.	€21.18	£14.12
9	¾"	39049	TTD-MM	**65mm ¾" Sq. Dr. Hub Nut Socket** Expert Quality, 12 point socket for the removal of hub nuts on Ford Transit Models 130, 150 and 190 - pre 1993 and rear hub nuts on Iveco vehicles. Forged from chrome vanadium steel hardened, tempered, chrome plated and polished for corrosion protection. Display packed.	€21.33	£14.22

1 XLWNS3

½" Sq. Dr. Draper Expert Hi Torq Deep Wheel Nut Sockets for Alloy Wheels

Expert Quality, set of three 6 point Draper Expert HI-TORQ sockets sizes 150mm long and 17, 19 and 21mm for deeply recessed alloy wheels . Manufactured from chrome molybdenum steel hardened and tempered. Sleeved with nylon internally and externally to prevent damage to wheels and nuts. Supplied in handy blow mould case with display sleeve.

Stock No.	Euro per set	GBP £ per set
40102	€78.27	£52.18

2 DIS4

4 piece ½" Sq. Dr. Diesel Injector Socket Set

Expert Quality, chrome molybdenum steel hardened and tempered with black phosphate finish and side viewing windows. Suitable for diesel injectors fitted to Alfa Romeo, Audi, BMW, Chrysler, Ford, GM (Vauxhall/Opel), Mercedes, Rover, Seat, Volkswagen and Volvo engines. Also suitable for MAN 2.5TD and Scania heavy goods vehicles Packed in blow mould storage case with display sleeve.

Contents:
- 22mm x 110mm long hexagon socket
- 22mm x 80mm long bi-hexagon socket
- 27mm x 78mm long bi-hexagon socket
- 28mm x 80mm long bi-hexagon socket

Stock No.	Euro per set	GBP £ per set
40103	€53.25	£35.50

3 HNISS5

5 piece ½" sq. dr. Metric Hub Nut Impact Socket Set

Expert Quality, 6 point chrome molybdenum steel hardened and tempered and chemically blacked for corrosion protection. Designed for use with modern high power ½" sq. dr. impact wrenches. Packed in blow mould case with display sleeve.

Contents:
- socket 30 x 90mm long
- socket 32 x 90mm long
- socket 34 x 90mm long
- socket 35 x 90mm long
- socket 36 x 90mm long

Stock No.	Euro per set	GBP £ per set
40158	€73.80	£49.20

Prices are list, each and exclude VAT.

1 HL12VA

500,000 Candle Power 12V DC Halogen Lamp

Halogen spotlight with 110mm diameter lens for general applications in and around the car, boat and caravan etc. Supplied complete with 1M (unstretched) of flexible cable and car cigarette lighter-type plug. Can be used with Draper Power Pack Stock No. 54723. Display carton.

Stock No.	Euro each	GBP £ each
68574	€15.33	£10.22

Twin Outlet Transformer Stock No. 61321

Adaptor Stock No. 61306

2 IL2

12V 24W Heavy Duty Handlamp

Manufactured to BS EN 60598
Expert Quality, with swivelling steel clamp, steel reflector, nitrile seal and domed polycarbonate lens and impact-resistant rubber handle. Supplied with a 24W bulb and approx. 7.25M of heavy duty cable with stripped ends so user can select clips or transformer for power supply. Can be used with Draper 12V/24W Handlamp Mains Adaptor Stock No.61306 or Draper Twin Outlet 12V/50W Handlamp Transformer Stock No.61321. Packed in polythene bag with header card.
* Sold loose

Stock No.	Part No.	Description	Euro each	GBP £ each
61284	IL2	Lamp	€59.01	£39.34
61306	ILT1	Single Outlet Adaptor	€49.83	£33.22
61321	ILT2	T/O Transf/er 2x25W	€106.35	£70.90
61780	-	24W Replace. Bulb*	€3.42	£2.28

3 IL5

12V 24W Heavy Duty Handlamp with On/Off Switch

Manufactured to BS EN 60598
Expert Quality, with on/off switch, swivelling steel clamp, steel reflector, nitrile seal and domed polycarbonate lens and heat-resistant ABS handle with easy access for rewiring. Supplied with a 24W bulb and approx. 7.25M of heavy duty cable with stripped ends so user can select clips or transformer for power supply. Can be used with Draper 12V/24W Handlamp Mains Adaptor Stock No.61306 or Draper Twin Outlet 12V/50W Handlamp Transformer Stock No. 61321. Packed in polythene bag with header card.
* Sold loose

Stock No.	Part No.	Description	Euro each	GBP £ each
61299	IL5	Lamp	€51.57	£34.38
61306	ILT1	Single Outlet Adaptor	€49.83	£33.22
61321	ILT2	T/O Transf/er 2x25W	€106.35	£70.90
61780	-	24W Replace. Bulb*	€3.42	£2.28

4 IL6

12V 24W Heavy Duty Handlamp with On/Off Switch and Mains Adaptor

Manufactured to BS EN 60598
Expert Quality, with heavy duty on/off switch, swivelling steel clamp, steel reflector, nitrile seal and domed polycarbonate lens and impact-resistant rubber handle. Supplied with a 24W bulb, approx. 7.25M of heavy duty cable, 230V AC mains adaptor with a 3 pin plug. Display carton.
* Sold loose

Stock No.	Description	Euro each	GBP £ each
61302	Lamp	€95.82	£63.88
61780	24W Replace. Bulb*	€3.42	£2.28

5 576A

12V DC Inspection Lamp

For use in places where mains power is unavailable. Supplied with 6M (approx.) of cable and crocodile clips for attachment to the terminals of a 12V car battery. A useful hang-up hook is incorporated in the design as well as a protective cage around the bulb. Supplied complete with 50W (max 60W) Edison screw bulb. Display carton.
The bulb used in this lamp MUST not exceed 60W

Stock No.	Euro each	GBP £ each
73527	€14.43	£9.62

6 574A

230V AC Inspection Lamp

Incorporates a reflective head, useful hang up hook and protective cage around bulb. Maximum bulb size 60W Edison screw (not supplied). Supplied complete with 6M (approx.) of cable and 3 pin plug (3A). Display carton.
The bulb used in this lamp MUST not exceed 60W.

Stock No.	Euro each	GBP £ each
73528	€24.27	£16.18

7 576HLB

240V AC Inspection Lamp

Manufactured to IP20 Specifications
Twin fluorescent lamps (11W) with useful hang-up hook. Supplied complete with 5M (approx.) of cable and 3 pin rewireable plug (13A). Spare tubes available. Display carton.

Stock No.	Description	Euro each	GBP £ each
87066	Lamp	€20.34	£13.56
87687	Spare tube	€3.36	£2.24

8 577HLA

12V 8W DC Fluorescent Inspection Lamp

For use in places where mains power is unavailable. Supplied with 3M (approx.) of cable and connector for car cigarette lighter socket. Has useful hang-up hook. Supplied complete with 280mm (11") fluorescent tube. Display packed.

Stock No.	Euro each	GBP £ each
65314	€13.47	£8.98

Prices are list, each and exclude VAT.

1 RIL27E

Rechargeable 27 LED Inspection Lamp

Expert Quality, manufactured from heavy duty plastic with rubber bumper to prevent damage and hang up hook. Gives up to five hours working time between charges. Maximum charging time three hours. Supplied complete with BS approved 3 pin 230V charger. Display packed.

Stock No.	Length	Euro each	GBP £ each
40897	320mm	€70.44	£46.96

2 RIL60

Rechargeable 60 LED Inspection Lamp

Expert Quality, manufactured from heavy duty plastic with useful hang up hook. Gives up to six hours working time between charges. Maximum charging time three hours. Supplied complete with BS approved 3 pin 230V charger and a 12V DC charger with car cigarette lighter plug. Display packed.

Stock No.	Length	Euro each	GBP £ each
40898	425mm	€54.78	£36.52

3 RIL2/LED

Retractable LED 230V AC Inspection Lamp

Expert Quality, with integral ceiling/wall bracket. Bracket swivels through 180°. Keeps work space free from unwanted lengths of cable. Lamp uses 60 high intensity LEDs. Supplied with 15M of cable and has a hang-up hook. Display carton.

Stock No.	Euro each	GBP £ each
79008	€187.08	£124.72

4 RIL1

Retractable Fluorescent 230V AC Inspection Lamp

Expert Quality, with integral ceiling/wall bracket. Bracket swivels through 180°. Keeps work space free from unwanted lengths of cable. Lamp uses two 11W fluorescent tubes. Supplied with 15M of cable and has a hang-up hook. Display carton.

Stock No.	Euro each	GBP £ each
79007	€136.05	£90.70

5 RCR15

15M 230V AC Retractable Cable Reel

Expert Quality, with integral ceiling/wall bracket. Bracket swivels through 180°. Keeps work space free from unwanted lengths of cable. Supplied with 15M of cable with one 13A socket. Display carton

Stock No.	Euro each	GBP £ each
79009	€128.52	£85.68

1 A1/EXP

Professional Heavy Duty Pistol Type Grease Gun

Expert Quality, grease gun with diecast head and port for air bleeder/bulk loader for single handed operation. Coupler and flexible extension tube. Suitable for cartridge or bulk fill. Safe working pressure 400 bar/5800 psi. Display carton.

Stock No.	Capacity	Euro each	GBP £ each
71390	500cc	€52.35	£34.90

2 A2

130cc Pistol Type Grease Gun

Zinc plated body with spring primed piston and air release valve complete with delivery tube and hydraulic connector. Safe working pressure 300 bar/4350 psi. Threaded ⅛" BSPT. Display carton.

Stock No.	Euro each	GBP £ each
12681	€24.06	£16.04

3 A1

500cc Heavy Duty Pistol Type Grease Gun

Diecast head with port for air bleeder/bulk loader for single handed operation. Coupler and rigid extension tube. Suitable for cartridge or bulk fill. Safe working pressure 345 bar/5000 psi. Display carton.

Stock No.	Euro each	GBP £ each
63854	€26.19	£17.46

4 A3

500cc Lever Grease Gun

Blue painted body with heavy duty spring and plunger assembly, complete with delivery tube and hydraulic connector. Side lever action. Suitable for grease cartridge loading. Safe working pressure 621 bar/9000 psi. Threaded ⅛" BSPT. Display carton.

Stock No.	Euro each	GBP £ each
12633	€27.87	£18.58

5 A4

500cc Heavy Duty Lever Grease Gun

Industrial model for bulk loading with stiff, medium or heavy grease for agricultural, automotive or industrial applications. Heavy duty spring, plunger assembly and air release valve. Complete with delivery tube and hydraulic connector. Side lever action. Suitable for cartridge and bulk delivery. Safe working pressure 620 bar/9000 psi. Threaded ⅛ BSPT. Display carton.Display carton.

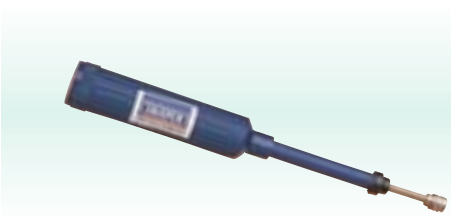
Stock No.	Euro each	GBP £ each
57734	€33.24	£22.16

6 A7

500cc Grease Gun

Lever action gun for use with standard grease gun cartridges and bulk. Supplied complete with delivery tube, connector with ⅛" BSPT thread and pressure relief valve. Display carton.

Stock No.	Euro each	GBP £ each
52394	€16.83	£11.22



7 A6

100cc Mini Double Action Grease Gun

Useful tool for greasing garden machinery, recreational and automotive vehicles. Display packed.

Stock No.	Length	Euro each	GBP £ each
34400	220mm	€13.53	£9.02

8 A5

500cc Oil Suction Gun

Designed for use on vehicles and machinery such as gearboxes, axles, etc. Supplied complete with flexible delivery tube 10mm bore. Display carton.

Stock No.	Euro each	GBP £ each
21587	€16.38	£10.92

DRAPER

9 GG8

170mm Rigid Delivery Tube

Cranked high pressure zinc plated tube. Complete with hydraulic connector. Suitable for certain Draper Grease Guns. Safe working pressure 400bar/5800psi. Thread ⅛ BSPT. Display packed.

Stock No.	Euro each	GBP £ each
57817	€3.81	£2.54

10 GG5

300mm Flexible Delivery Tube

High pressure reinforced rubber tube, threaded ⅛" BSPT at both ends. Safe working pressure 400bar/5800psi. Display packed.

Stock No.	Euro each	GBP £ each
57841	€6.45	£4.30

11 GG6

300mm Flexible Delivery Tube

High pressure thermoplastic tube, threaded ⅛" BSPT at both ends. Safe working pressure 400bar/5800psi. Display packed.

Stock No.	Euro each	GBP £ each
12750	€4.83	£3.22

12 GG10

Hydraulic Connector

Heavy duty four jaw connector with brass body, threaded ⅛" BSPT. Safe working pressure 400bar/5800psi. Display packed.

Stock No.	Euro each	GBP £ each
12771	€3.51	£2.34

13 GG2

Hydraulic Connector

Four jaw plated steel connector, threaded ⅛" BSPT. Safe working pressure 680bar/9800psi. Display packed.

Stock No.	Euro each	GBP £ each
57859	€2.79	£1.86

14 GG7

Hook-On Connector

Heavy duty hook or slide-on connector with plated steel body, threaded ⅛" BSP. Safe working pressure 80bar/1150psi. Sold loose.

Stock No.	Euro each	GBP £ each
57875	€5.37	£3.58

Prices are list, each and exclude VAT.

1 27

Force Feed Oil Cans

Oil cans supplied with fitted flexible spout and a loose interchangeable rigid spout. Sold loose.

Stock No.	Capacity	Euro each	GBP £ each
21716	125ml	€5.43	£3.62
21717	200ml	€5.73	£3.82
21718	300ml	€6.63	£4.42
21719	500ml	€8.22	£5.48
21720	700ml	€9.06	£6.04

2 BP

Lever Action Barrel Pump

For use with steel barrels capacity 100 to 205L maximum. Aluminium diecast head and bung nut with zinc plated curved discharge spout 35mm diameter and lever handle. The telescopic suction tube (supplied) attaches to base of pump to reach bottom of barrel. Display carton.

NB:Not for use with petroleum or diesel fuels

Stock No.	Euro each	GBP £ each
63857	€37.05	£24.70

product locator

Air Grease Guns are also available. See Section 9 'Air Tools'

pullers

3 N130

Twin Leg Reversible Pullers

Puller with two reversible legs for external and internal pulling of gears, bearings, etc. Legs are forged carbon steel and have long and short reach facility. Yoke and thrust bolt are manufactured from carbon steel. Screw has a rolled thread with chemically blacked finish. Display packed.

Stock No.	Max. Reach	Max. Spread	Euro each	GBP £ each
13906	65mm	75mm	€16.74	£11.16
13907	102mm	110mm	€20.22	£13.48
43923	165mm	160mm	€34.86	£23.24

4

Twin/Triple Reversible Pullers

Puller with two reversible legs for external and internal pulling of gears, bearings, etc. Legs are forged carbon steel and have long and short reach facility. Yoke and thrust bolt are manufactured from carbon steel. Screw has a rolled thread with chemically blacked finish. Supplied with twin and triple yoke that will take either two or three legs. Display packed.

Stock No.	Part No.	Max. Reach	Max. Spread	Euro each	GBP £ each
25994	N134	78mm	100mm	€36.24	£24.16
56177	N136	150mm	100mm	€42.27	£28.18

5 N133

Triple Leg Reversible Pullers

Puller with three reversible legs for external and internal pulling of gears, bearings, etc. Legs are forged carbon steel and have long and short reach facility. Yoke and thrust bolt are manufactured from carbon steel. Screw has a rolled thread with chemically blacked finish. Display packed.

Stock No.	Max. Reach	Max. Spread	Euro each	GBP £ each
13908	65mm	75mm	€24.09	£16.06
13909	102mm	110mm	€30.33	£20.22
43949	165mm	160mm	€47.22	£31.48

6 BSD/SET

10 piece Bearing and Seal Driver Set

For the installation of bearings and seals. Helps avoid damage to bearing and seal faces. Packed in blow mould case and display sleeve.

Contents:
- 9 x aluminium drive flanges size: 39.5, 44.5, 50, 59, 63, 65, 72, 76 and 81mm
- aluminium mandrel drive

Stock No.	Euro per set	GBP £ per set
56637	€94.59	£63.06

7 HPK

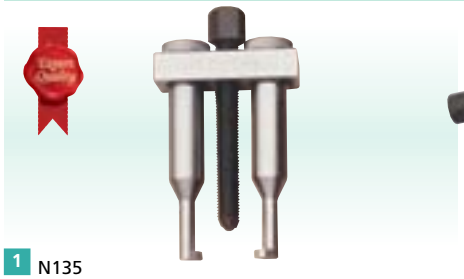
10 Tonne Hydraulic Puller Kit

Six position multi-function puller with adjustable two or three leg function. Allows bearings, gears, etc. to be removed with minimal effort by use of the hydraulic puller. Supplied complete with instruction manual. Packed in blow mould carrying case with display sleeve.

Contents:
- hydraulic pump
- 3 puller legs
- 6 nuts and washers
- 6 link plates
- ⅔ leg puller yoke
- nose adaptor
- Min/Max Reach 0 - 150mm
- Min/Max Spread 100 - 240mm

Stock No.	Euro per kit	GBP £ per kit
50094	€158.94	£105.96

DRAPER



1 N135

GM (Vauxhall/Opel) Steering Wheel Puller

Expert Quality, for use on GM (Vauxhall/Opel) vehicles including those fitted with airbags. Display packed.

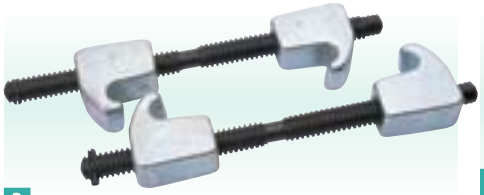
Stock No.	Description	Euro each	GBP £ each
31488	Wheel Puller	€25.80	£17.20
51383	Spare Leg	€14.43	£9.62

2 N142

Universal Hub Puller

Plated ductile body casting with hardened screw for use on four stud wheels. Bolt centres 100-115mm. Display packed.

Stock No.	Euro each	GBP £ each
13916	€11.22	£7.48



3 N144

2 piece Coil Spring Compressor Set

Hooks manufactured from tension ductile iron with galvanized finish. 16mm diameter carbon steel screws. Maximum opening 190mm. Display packed.

Stock No.	Length	Euro per set	GBP £ per set
14173	250mm	€31.83	£21.22

4 N152

2 piece Coil Spring Compressor Set

Wrap round claws with polished chrome finish. Lead screw manufactured from carbon steel hardened and tempered. Jaw design makes them suitable for use in confined areas. Maximum opening 220mm. Display carton.

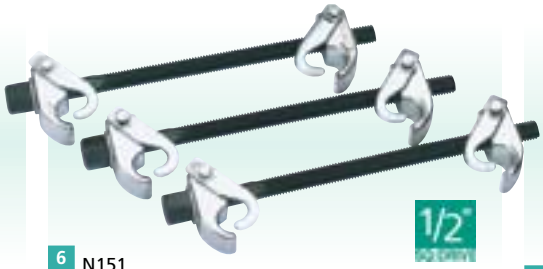
Stock No.	Euro per set	GBP £ per set
68615	€30.06	£20.04

5 N145

2 piece Coil Spring Compressor Set

Forged carbon steel claws hardened and tempered. M16x1.5mm screw manufactured from carbon steel hardened, tempered with a chemically blacked finish. Capacity 90-200mm. Carton packed.

Stock No.	Euro per set	GBP £ per set
31497	€39.93	£26.62



6 N151

3 piece Coil Spring Compressor Set

Cast steel claws with safety hooks to prevent accidental release. Lead screw manufactured from carbon steel hardened and tempered with ½" square drive facility. Maximum opening 224mm. Display carton.

Stock No.	Euro per set	GBP £ per set
68614	€53.55	£35.70

7 N139

Ball Joint Puller

Forged body with hardened thrust bolt. Direct action puller with a jaw capacity of 19mm. Suitable for use on most cars and some light commercial vehicles. Display packed.

Stock No.	Euro each	GBP £ each
13913	€13.68	£9.12

8 N150

Ball Joint Separator

Expert Quality, forged carbon steel body, plated finish with steel bolt. Adjustable jaw opening 19-22mm, maximum opening capacity 38mm. Display packed.

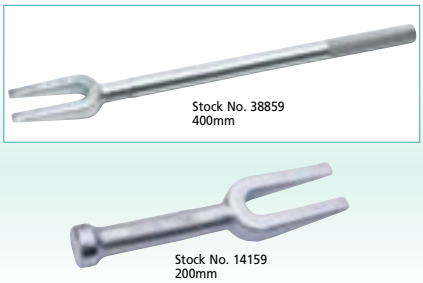
Stock No.	Euro each	GBP £ each
63770	€30.36	£20.24

9 N140

Ball Joint Separator

Forged carbon steel body, plated finish with steel bolt. Jaw opening 19mm, maximum opening capacity 38mm. Display packed.

Stock No.	Euro each	GBP £ each
13914	€22.50	£15.00



10

Fork Type Ball Joint Separators

Forged carbon steel body with plated finish. Jaw opening 19mm and throat depth 70mm. Display packed.

Stock No.	Part No.	Length	Euro each	GBP £ each
14159	N143	200mm	€9.63	£6.42
38859	N148	400mm	€14.19	£9.46

11 CVBT

CV Boot Tool

This tool allows the user to renew the CV boot of a vehicle without dismantling the CV joint. Manufactured from nylon with a 19mm hexagon bar fitted to the base. Display packed.

Stock No.	Tool Length	Euro each	GBP £ each
54680	330mm	€13.29	£8.86

12 SNS4

4 piece Set of Strut Nuts

Expert Quality, for the removal and installation of shock absorber retaining nuts on most VW and Audi vehicles. Plated finish. Uses 22m socket or spanner. Display packed.

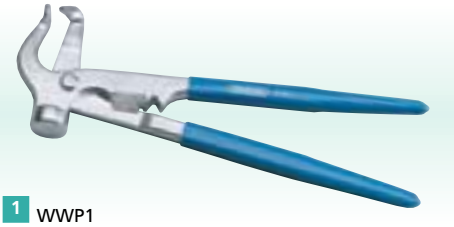
Contents:
No.1 10.5mm, No.2 12.5mm, No.3 14.5mm and No.4 14.5mm

Stock No.	Euro per set	GBP £ per set
71405	€22.32	£14.88

product information

When using specialized automotive tools ALWAYS refer to the vehicle manufacturer's service or relevant Haynes manual for detailed and concise instruction of usage.

Prices are list, each and exclude VAT.

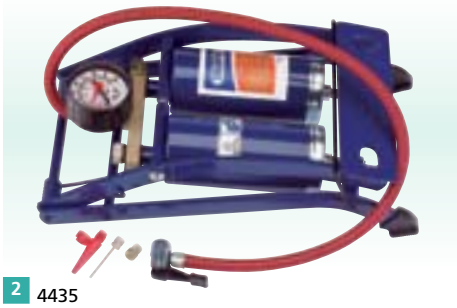


1 WWP1

250mm Wheel Balance Weight Pliers

For fitting, removing and cutting vehicle wheel weights. Drop forged carbon steel hardened, tempered, heat treated and plated finish for corrosion protection. PVC dipped handles. Display packed.

Stock No.	Euro each	GBP £ each
56748	€16.71	£11.14



2 4435

Double Cylinder Foot Pump

Manufactured to GS Specifications.
High performance, suitable for applications where a high volume of air or fast pumping action is required. Pressure gauge is marked 0-100 psi and 0-7 bar. Robust all-metal design with 4mm thick steel base. Supplied complete with 600mm (approx.) delivery hose with lock on connector for tyres etc. and a special nozzle for air beds, footballs, etc. Display carton.

Stock No.	Euro each	GBP £ each
25996	€25.26	£16.84

3 4430

Foot Pump

Foot pump with 120mm barrel and 450mm (approx.) hose with nylon connector and football inflator adaptor. Pressure gauge marked 0-100 psi and 0-7kg/cm² (0-7 bar). Display carton.

Stock No.	Euro each	GBP £ each
14172	€15.51	£10.34

5 DA12/250A

12V Mini Air Compressor (250psi max.)

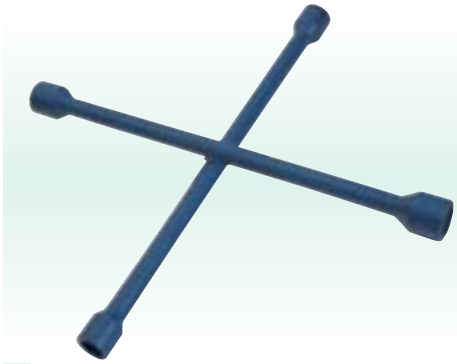
Multi-functional compressor with flash light/torch beam and pressure gauge. For the inflating of tyres, dinghies and sports equipment. Powered by cigarette lighter socket. Supplied complete with 12V DC car cigarette lighter plug on 3M long (approx.) lead, two inflating adaptor nozzles, one needle valve adaptor and hose clip-on tyre adaptor. Display carton.

The pressure gauge on this model is for guidance only

Stock No.	Euro each	GBP £ each
65958	€29.55	£19.70

product locator

Industrial quality tyre inflators manufactured by PCL are available. See page 493 for ordering information.



6 PW5A

Four Way Wheel Nut Wrench

Heavy duty forged four way wheel nut wrench 17 x 19 x 21 x 22mm. Enamelled finish for corrosion protection. Arm length: 380mm. Sold loose.

Stock No.	Euro each	GBP £ each
36005	€9.87	£6.58

7 S21

Wheel Nut Wrench

Heavy duty forged wrench with long, high leverage handle incorporating a ¾" AF-19mm (dual size) socket and hub cap remover. Enamelled finish for corrosion protection. Sold loose.

Stock No.	Euro each	GBP £ each
07054	€6.27	£4.18

8 WM17/19

Extending Wheel Nut Wrench

½" sq. drive reversible sockets size 17 x 19 and 21 x 22mm, manufactured from chrome vanadium steel. Extending bar with hand grip. Display packed.

Stock No.	Length	Euro each	GBP £ each
19152	Max. 525mm	€19.29	£12.86

4 HP5

Heavy Duty Hand Pump

Expert Quality, stainless steel barrel 45mm diameter with soft grip pump handle. 900mm (approx.) long hose with connectors suitable for Presta and Schrader valves used on most cars, vans, motorcycles and bicycles. Diecast base incorporates foot rests for stability whilst pumping and dial-type pressure gauge marked 0-160psi and 0-11bar. Display packed.

Stock No.	Pump Height Closed	Euro each	GBP £ each
87392	705mm	€56.01	£37.34

SPECIALIST AUTOMOTIVE TOOL APPLICATION GUIDE

- A handy pocket sized guide designed for the quick referencing of Draper specialist automotive tools to vehicle manufacturer/model and application.
- Updated regularly! Ask for our latest edition.

ALSO AVAILABLE ON OUR WEBSITE. Visit... www.draper.co.uk/Pages/Auto.html

Prices are list, each and exclude VAT.

1 TL

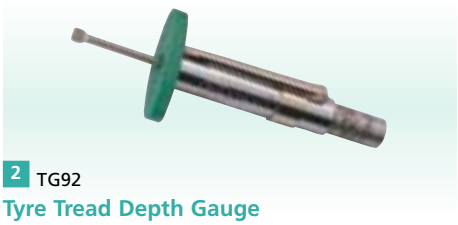
450mm Tyre Levers

Pair of tyre levers hot forged from EN8 steel hardened, tempered and zinc plated. Carded pair of 2. Display packed.

Stock No.	Euro per pair	GBP £ per pair
31495	€24.45	£16.30

product locator

See page 100 and 101 for specialised wheel nut socketry and accessories



2 TG92

Tyre Tread Depth Gauge

Complies with EC Directive 89/459/EEC
Gives fast and easy-to-read measurement of tyre tread depth from 1-26mm in one millimetre graduations on sliding barrel. Includes a 1.6mm graduation to comply with MoT minimum tyre tread depth requirement. Accepted in the UK by the Department of Transport for MOT Testing. Plated steel body with pocket clip. Display packed.

Stock No.	Euro each	GBP £ each
27298	€5.73	£3.82

5 TPG100A

Tyre Pressure Gauge

Manufactured to EN12645:1998 Standard
Hand-held dual reading gauge with flexible 250mm long hose. Swivel angled tyre connection and air release valve. Large easy-to-read scale graduated 0-100psi in increments of two psi and 0-7bar in increments of 0.1 bar. Display packed.

Stock No.	Euro each	GBP £ each
69924	€14.64	£9.76

8 DTG

Digital Tyre Pressure Gauge

Handy-size dual-reading tyre pressure gauge - range 0-60psi (±1psi) and 0.05-5.0 bar. Low power consumption with automatic shut off and powered by a 3V lithium battery (supplied). Display packed.

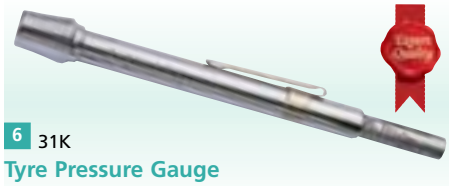
Stock No.	Euro each	GBP £ each
52304	€16.05	£10.70

3 TV100

Tyre Valve Repair Tool

Cleans internal and external valve stem threads and removes valve cores. Display packed.

Stock No.	Euro each	GBP £ each
11502	€4.02	£2.68

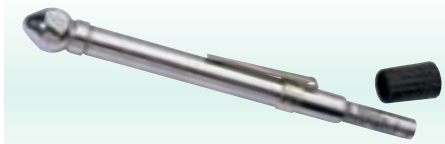


6 31K

Tyre Pressure Gauge

Manufactured to BS4613 Part 3 Specification
Expert Quality, dual reading graduated 6-50 psi in increments of one psi and 0.4-3.4 bar in increments of 0.1 bar. In line feature allows access to awkwardly positioned tyre valves. Gauge has valve remover and pocket clip. Blue zinc plated and polished finish. Display packed.

Stock No.	Euro each	GBP £ each
26443	€8.16	£5.44



9 30K

Tyre Pressure Gauge

Manufactured to BS4613 Part 3 Specification
Dual reading pencil type, graduated 6-50 psi in increments of one psi and 0.4-3.4 bar in increments of 0.1 bar. Gauge has a valve remover and pocket clip. Blue zinc plated and polished finish. Display packed.

Stock No.	Euro each	GBP £ each
74308	€8.10	£5.40

4 TPG101

Tyre Pressure Gauge

Manufactured to EN12645:1998 Standard
Hand-held dual reading gauge with straight push-on valve chuck. Scale graduated 0-60psi in increments of two psi and 0-4bar in increments of 0.1 bar. Available in the following randomly supplied colours; purple, red, blue, yellow and black. Display packed.

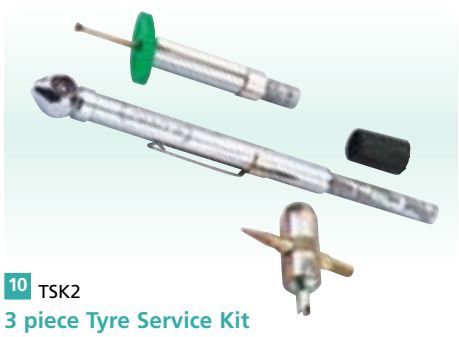
Stock No.	Euro each	GBP £ each
69923	€5.07	£3.38

7 DTG1

Digital Tyre Pressure Gauge

Expert Quality, handy-size tyre pressure gauge - range 2.0-99.5psi, 0.15-7.00 bar and 15-700kPA. Low power consumption with automatic shut off and powered by a 3V lithium battery (supplied). Display packed.

Stock No.	Euro each	GBP £ each
73183	€20.88	£13.92



10 TSK2

3 piece Tyre Service Kit

Kit comprising Stock No.27298 Tyre Tread Depth Gauge, Stock No.74304 Tyre Pressure Gauge and Stock No.11502 Tyre Valve Repair Tool. Display packed.

Stock No.	Euro per kit	GBP £ per kit
27683	€17.64	£11.76

Prices are list, each and exclude VAT.

1 2 3 4

1 MR-D

400ml Mr D's Moisture Dispersant

Dual purpose moisture and penetrating oil, suitable for dispersing moisture from electrical systems and as a general lubricating and penetrating oil. Can content 400ml. Sold loose.

Stock No.	Euro each	GBP £ each
61663	€5.73	£3.82

2 ARE-CCL

400ml Carburettor and Injector Cleaner

Ideal for cleaning carburettors, injectors and brake parts. Helps prevent stalling and rough idling. CFC free. Sold loose.

Stock No.	Euro each	GBP £ each
64340	€5.70	£3.80

3 ARE-BCL

400ml Brake and Clutch Cleaner

Ideal for cleaning all parts of modern brake and clutch systems. Eliminates brake squeal and clutch slip caused by contamination and glazing. CFC free. Sold loose.

Stock No.	Euro each	GBP £ each
64341	€5.85	£3.90

4 ARE-DBR

400ml Dashboard Renovator

Pleasantly perfumed (cranberry) fast shining blend of cleaning solvents and silicones. Suitable for restoring internal trims and dashboards, cleans and polishes vinyl, leather and wood back to a sparkling appearance. It also is an effective oil and stain remover and can be used as a non-staining lubricant on windows, doors, hinges and locks. CFC free. Sold loose.

Stock No.	Euro each	GBP £ each
64344	€4.47	£2.98

5 TP-MASKPRO

50M Professional Masking Tape

Expert Quality, low tack, easy tear and re-positional. Ideal for professional usage. Can be used for low bake masking applications. Clean peel up to 12 hours after usage. Display packed.

Stock No.	Width	Euro per roll	GBP £ per roll
63478	24mm	€3.21	£2.14
63479	48mm	€5.61	£3.74

6 TP-MASK

50M Masking Tape

Easy tear and re-positional. Ideal for decorating, drilling or spraying. Clean peel up to 3 hours after usage. Display packed.

Stock No.	Width	Euro per roll	GBP £ per roll
63481	24mm	€2.46	£1.64
63480	48mm	€4.53	£3.02

THREE SIZES AVAILABLE

7 LG-10

Packs of 10 Latex Gloves

100% pure latex gloves, starch powdered for easy pull on. Ambidextrous fit - three sizes available. Display packed.

Order number of packs required

Stock No.	Size	Euro per pack	GBP £ per pack
75309	Small	€2.64	£1.76
75310	Medium	€2.64	£1.76
54779	Large	€2.64	£1.76

8 LG-100

Box of 100 Latex Gloves

100% pure latex gloves, starch powdered for easy pull on. Ambidextrous fit - one size (large). Supplied in handy dispenser box.

Order number of boxes required

Stock No.	Euro per box	GBP £ per box
54780	€15.21	£10.14

9 O-RING/419

419 piece O-Ring Assortment

An assortment O-rings, size range 3mm I.D. x 1.5mm section to 50mm I.D. x 3.5mm section. Full contents listed below. Packed in blow mould storage case with display sleeve.

Contents - I.D. (mm) x section (mm):
3 x 1.5, 4.4 x 2.0, 5.0 x 2.0, 7.0 x 1.5, 10.0 x 1.5, 13.0 x 1.5, 10.0 x 2.5, 11.0 x 2.5, 13.0 x 2.5, 14.0 x 2.5, 16.0 x 2.5, 18.0 x 2.5, 19.0 x 2.5, 21.0 x 2.5, 22.0 x 2.5,18 x 3.5, 20.0 x 3.5, 22.0 x 3.5, 23.5 x 3.5, 25.0 x 3.5, 26.5 x 3.5, 28.0 x 3.5, 30.0 x 3.5, 31.0 x 3.5, 33.0 x 3.5, 34.5 x 3.5, 36.0 x 3.5, 38.0 x 3.5, 41.0 x 3.5, 44.0 x 3.5, 47.0 x 3.5 and 50.0 x 3.5.

Stock No.	Euro p/assrt	GBP £ p/assrt
56345	€33.75	£22.50

10 O-RING/225

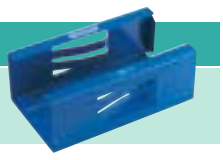
225 piece O-Ring Assortment

Assortment of O-rings in plastic storage case. Display carton.

Contents:
- 20 each off (approx.) sizes: 3 x 1, 5 x 2, 6 x 3, 4 x 1, 6 x 2, 7 x 2, 4.5 x 2, 6 x 2.5 and 8 x 2mm
- 5 each off (approx.) sizes: 9 x 2, 13 x 3, 18 x 4, 10 x 2, 14 x 2.5, 20 x 2, 12 x 3, 17 x 2.5 and 22 x 2mm

Stock No.	Euro p/assrt	GBP £ p/assrt
56377	€14.46	£9.64

product locator



See page 88 for a Magnetic Holder for Boxes of Latex Gloves

1 COTTER/555

555 piece Split Pin Assortment

Assortment of zinc plated split pins in plastic storage case. Display carton.

Contents:
- 210 off (approx.) size 1.6 x 25mm
- 150 off (approx.) size 2.4 x 25mm
- 100 off (approx.) size 2.4 x 38mm
- 50 off (approx.) size 3.2 x 32mm
- 30 off (approx.) size 3.2 x 50mm
- 15 off (approx.) size 4.0 x 64mm

Stock No.	Euro p/assrt	GBP £ p/assrt
56375	€13.68	£9.12

2 CIRCLIP/285

285 piece Internal and External Circlip Assortment

Assortment of internal and external circlips in plastic storage case. Display carton.

Contents:
- 15 each of (approx.) internal circlips size: 10, 12, 14, 16, 18 and 20mm
- 20 each of (approx.) external circlips size: 6, 8, 10, 11, 12, 14, 16 and 18mm
- 10 each of (approx.) external circlips size: 20, 22 and 25mm
- 5 of (approx.) external circlips size: 32mm

Stock No.	Euro p/assrt	GBP £ p/assrt
56379	€11.34	£7.56

3 WASHER/720

720 piece Spring and Star Washer Assortment

Assortment of spring, internal and external star washers in plastic storage case. Display carton.

Stock No.	Euro p/assrt	GBP £ p/assrt
56378	€13.68	£9.12

4 HAIRP/150

150 piece R-Clip Assortment

Assortment of R-clips in plastic storage case. Display packed.

Contents:
- 8 off (approx.) 3.8 x 75mm
- 20 off (approx.) 3.2 x 45mm
- 25 off (approx.) 2.3 x 40mm
- 25 off (approx.) 1.6 x 40mm
- 30 off (approx.) 1.6 x 32mm
- 42 off (approx.) 2.0 x 50mm

Stock No.	Euro p/assrt	GBP £ p/assrt
56376	€13.68	£9.12

5 SPRING/200

200 piece Compression and Extension Spring Assortment

Assortment of plated compression and extension springs in plastic storage case. Display packed.

Contents:
- 6 off (approx.) compression springs size: 9 x 15mm
- 8 off (approx.) compression springs size: 8 x 35mm
- 8 each off (approx.) compression springs size: 8 x 35, 5 x 20, 5.5 x 40 and 6 x 19mm
- 12 off (approx.) compression springs size: 9 x 19mm
- 18 each off (approx.) compression springs size: 6 x 12 and 7 x 13mm
- 8 each off (approx.) extension springs size: 4 x 79, 5 x 44, 7 x 54, 8 x 28, 8 x 44 and 8 x 46mm
- 10 each off (approx.) extension springs size: 5 x 20, 5.5 x 25, 6 x 20, 8 x 30, 8 x 36 and 8 x 39mm

Stock No.	Euro p/assrt	GBP £ p/assrt
56380	€13.68	£9.12

6 ROLL/120

120 piece Roll Pin Assortment

Popular imperial sized roll pins in plastic storage case. Display carton.

Stock No.	Euro p/assrt	GBP £ p/assrt
63943	€9.72	£6.48

7 HST95

95 piece Heat Shrink Tube Assortment

An assortment of 95 (approx.) heat shrink tubes for sealing automotive electrical connections. To be used in conjunction with hot air guns. Supplied in plastic organiser with see-through lid. Display packed.

Contents:
3.2mm dia. tubes: 40 each x black, 10 each x blue, yellow and red
6.5mm dia. tubes: 10 x black, 5 each x blue, yellow and red

Stock No.	Euro p/assrt	GBP £ p/assrt
72878	€11.22	£7.48

8 FUSE/120

120 piece Automotive Fuse Assortment

Assortment of automotive fuses in plastic storage case. Display carton.

Contents: 20 each off (approx.) fuses of ratings: 5A, 10A, 15A, 20A, 25A and 30A

Stock No.	Euro p/assrt	GBP £ p/assrt
56381	€15.66	£10.44

product locator

Assortments of screws, plugs, nails etc. are shown on page 349.

Prices are list, each and exclude VAT.

ORDER IN MULTIPLES OF 12 AND GET THIS IN-STORE MERCHANDISER - TO OBTAIN THE FREE MERCHANDISER STOCK No. 95749 MUST BE QUOTED ON YOUR ORDER IN ADDITION TO STOCK No. 74190 FOR THE 12 BRUSHES

1 WWB1

Flow Through Telescopic Washing Brush

For cleaning vehicles, boats, paintwork, conservatories etc. Has on/off water control feature and snap-on hose connector compatible with the Draper Watering System. Extends from 1.2 to 1.8M. Display packed on header card.

Available in singles - order multiples of 12 to get a free dispenser

Stock No.	Euro each	GBP £ each
74190	€36.27	£24.18

5 EHC

Emergency Hammer/Cutter

For emergency use in the home, office, car and other travel. Shatters automotive and domestic glass. Cuts through automotive seat belts. Ideal for use by the emergency services i.e. ambulance, police or fire fighters. Hardened carbon steel hammer striking point with tough ABS plastic contoured handle for user comfort. Supplied with mounting rack and fixings. Display packed.

Stock No.	Length	Euro each	GBP £ each
61229	185mm	€8.88	£5.92

2 GW29

4 piece Car Washing/Window Cleaning Kit

High impact-resistant plastic construction, all components having snap-on connectors that are compatible with the Draper Watering System. Display packed.

Contents:
- brush 300mm long
- spray/squeegee 200mm wide
- 4 pattern spray gun with control lever, locking clip, flow control valve, fine shower, jet, soaker and flat spray patterns
- ½" hose connector

Stock No.	Euro per kit	GBP £ per kit
61206	€16.05	£10.70

3

Vehicle Wash and Wax Shampoo

For use with hand and pressure washers. Supplied in plastic containers.

Stock No.	Part No.	Volume	Euro each	GBP £ each
34649	PWW1	1L	€4.02	£2.68
34706	PWW5	5L	€16.74	£11.16

4 PTFR1

1L High Foam Traffic Film Remover

For use with hand and pressure washers. Supplied in plastic bottle.

Stock No.	Euro each	GBP £ each
34648	€4.05	£2.70

6 AWB1

Alloy Wheel Cleaning Brush

Pliable head with non-scratch bristle brush head. Head can be altered to suit the contours of most wire or alloy wheels. Display packed.

Stock No.	Euro each	GBP £ each
40156	€4.68	£3.12

7 LWNS4

4 piece Locking Wheel Nut Set

Expert Quality, for the installation and removal of locking wheel nuts on most vehicles. Manufactured from molybdenum steel, hardened, tempered and chemically blacked for corrosion protection. Reduce tapered internal left hand coarse thread. For use with air and electric tools. Packed in metal display case.

Contents: 38mm long x 17.0, 18.5, 21.5 and 26.0mm (open end)

Stock No.	Euro per set	GBP £ per set
89766	€38.37	£25.58

1 IN200

12V DC 230V 200W AC Inverter

Converts 12V DC to 230V AC. Uses power via car cigarette lighter plug. Ideal for use in caravans, boats, HGVs etc. for appliances that use mains power and have 3 pin UK-type plugs. Has on/off switch with LED power indicator. Display packed.

Specification:

Input voltage	... 12V DC
Output voltage	... 200W continuous power
Max wattage	... 400W (peak power)
Output voltage	... 230V AC
Wave form	... modified sine

Stock No.	Euro each	GBP £ each
72173	€67.14	£44.76

2 IN400

12V DC 230V 400W AC Inverter

Converts 12V DC to 230V AC. Uses power via car cigarette lighter plug or crocodile clips. Crocodile clips for use with any appliance that draws over 200W. Ideal for use in caravans, boats, HGVs etc. for appliances that use mains voltage and have 3 pin UK-type plugs. Has on/off switch with LED power indicator. Display packed.

Specification:

Input voltage	... 12V DC
Output wattage	... 400W continuous power
Max wattage	... 800W (peak power)
Output voltage	... 230V AC
Wave form	... modified sine

Stock No.	Euro each	GBP £ each
72174	€100.65	£67.10

3 AA1

12V DC 3 Way Extension Socket

Car lighter plug with three sockets. Supplied complete with 2M lead. Display packed.

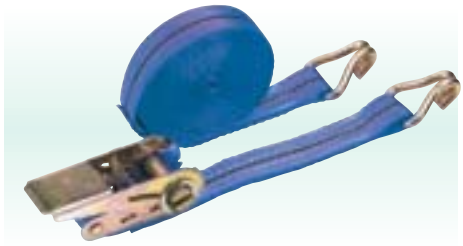
Stock No.	Euro each	GBP £ each
78907	€7.56	£5.04

4 TDS/A

4M x 25mm Tie Down Strap

Cam locking buckle. Display carton.

Stock No.	Capacity	Euro each	GBP £ each
64215	120kg	€3.21	£2.14



5 RTDS

Ratchet Tie Down Straps

Quality webbing with two 'S' hooks. Display carton.

Stock No.	Length	Width	Capacity	Euro each	GBP £ each
64216	4.5M	750kg	25mm	€7.62	£5.08
64217	5.4M	1000kg	50mm	€27.54	£18.36
64218	8.0M	2062kg	50mm	€41.76	£27.84

6 BCLD80

800mm Elastic Straps

Manufactured to GS/TUV and BSAU 258
Powerful elastic straps manufactured from virgin rubber with double folded steel hooks. Lashing capacity 20kg. Display packed two straps per pack.

Stock No.	Euro per pair	GBP £ per pair
89199	€5.97	£3.98

7 BCHD80

800mm Heavy Duty Elastic Straps

Manufactured to GS/TUV and BSAU 258
Expert Quality, powerful elastic straps manufactured from virgin rubber with extra strength hooks for holding awkward loads. Lashing capacity 40kg. Display packed two straps per pack.

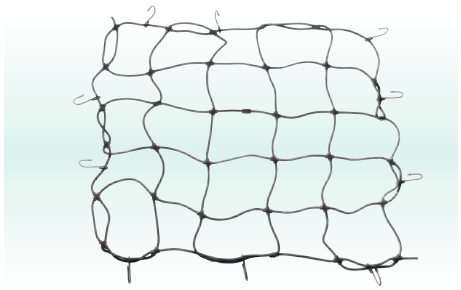
Stock No.	Euro per pair	GBP £ per pair
89200	€6.60	£4.40

8 BCADJ1000

200-1000mm Adjustable Length Elastic Straps

Manufactured to GS/TUV and BSAU 258
Powerful elastic straps straps manufactured from virgin rubber with adjustable length locking hooks. Lashing capacity 27kg. Display packed two straps per pack.

Stock No.	Euro per pair	GBP £ per pair
89201	€7.80	£5.20



9 BCNET

Elastic Cargo Net

Manufactured to GS/TUV and BSEN 12125-2
Elasticated rubber with 12 steel hooks. For keeping loads safe in transit. Overall size 750 x 750mm. Display packed.

Stock No.	Euro each	GBP £ each
89202	€10.11	£6.74

10 PSVFAK1

PSV Wall Mountable First Aid Kit

HSE Approved
Comprehensive kit, ideal for mounting in passenger service vehicles (PSV), boats, caravans, mobile homes etc. Plastic box that can be easily mounted in confined spaces. Display carton.

Contents:
- 20 assorted sterile waterproof plasters
- 10 alcohol-free hygienic cleansing wipes
- 6 safety pins
- 2 pairs of medium powder-free disposable vinyl gloves
- 2 non-woven triangular bandages
- 7.5cm x 5M bandage.
- 18 x 18cm sterile dressing
- double-sided 7.5 x 7.5cm non-adherent absorbent dressing
- double-sided 5cm x 5cm non-adherent absorbent dressing
- conforming 5cm x 4,5cm bandage
- reel of 3M x 1.25cm microporous tape
- pair of first aid scissors
- first aid administration guidance leaflet

Stock No.	Euro per kit	GBP £ per kit
89821	€25.02	£16.68

Prices are list, each and exclude VAT.

1

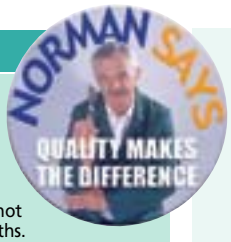
All in One Nylon Car Covers

Three sizes (bumper to bumper) with easy to fit elasticated corners and door access panel. Water repellent nylon. Integral storage holdall. Display packed.

Please note, these covers are NOT waterproof.

Stock No.	Part No.	Vehicle Size	Euro each	GBP £ each
74015	VC1	Up to 4M (13ft)	€35.31	£23.54
74014	VC2	Up to 4.3M (14ft)	€37.74	£25.16
74013	VC3	Up to 4.6M (15ft)	€40.14	£26.76

norman says



A revolutionary product which prevents slipping. Uses include sunglasses on car dashboards, cutlery in drawers, under the pet bowl. Its uses are limited only by your imagination. It's tough, washable, flame retardant and is not attacked by mould, mildew or moths.

REVOLUTIONARY NON-SLIP DRAPER®

GRIPMAT®

USES LIMITED ONLY BY ONE'S IMAGINATION!

2

Rolls of Non-Slip Draper Grip Mat ®

Revolutionary multi-purpose non-slip mat that will grip and protect almost any surface. Draper Grip Mat® will not shift or move on most surfaces. Manufactured from flame-retardant, mould, mildew and mothproof material with 10 year non-slip guarantee. Easy to clean, just rinse with water and lay flat to dry. Shrink wrapped for security. Display packed.

Draper Grip Mat ® is a registered trademark of Draper Tools Limited

Stock No.	Part No.	Approx. Size	Euro per roll	GBP £ per roll
54672	DGM1	300 x 1820mm	€16.29	£10.86
54673	DGM2	450 x 1820mm	€24.48	£16.32

3

Pads of Non-Slip Draper Grip Mat ®

Revolutionary multi-purpose non-slip mat that will grip and protect almost any surface. Draper Grip Mat ® will not shift or move on most surfaces. Manufactured from flame-retardant, mould, mildew and mothproof material with 10 year non-slip guarantee. Easy to clean, just rinse with water and lay flat to dry. Shrink wrapped for security. Display packed.

Draper Grip Mat ® is a registered trademark of Draper Tools Limited

Stock No.	Part No.	Approx. Size	Euro per pad	GBP £ per pad
54674	DGM3	610 x 1220mm	€21.21	£14.14
54675	DGM4	910 x 1220mm	€30.78	£20.52

4 DGM6

Roll of Heavy Duty Non-Slip Draper Grip Mat ® Plus

Revolutionary multi-purpose heavy duty non-slip cushioning mat that will grip and protect almost any surface. Draper Grip Mat ® Plus will not shift or move on most surfaces. Manufactured from flame-retardant, mould, mildew and mothproof material with 10 year non-slip guarantee. Easy to clean, just rinse with water and lay flat to dry. Shrink wrapped for security. Display packed.

Draper Grip Mat ® is a registered trademark of Draper Tools Limited

Stock No.	Approx. Size	Euro per roll	GBP £ per roll
56461	450 x 665mm	€28.71	£19.14